

Curriculum Vitae

Date Prepared: February 1, 2014
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Place of Birth: Portland, Maine

Education:

<i>Year</i>	<i>Degree (Honors)</i>	<i>Field of Study</i>	<i>Institution</i>
1991	BS, with Distinction, with Honors, Phi Beta Kappa	Biologic Sciences	Stanford University, Stanford, CA
1995	MD, Alpha Omega Alpha	Medicine	Columbia University College of Physicians & Surgeons, New York, NY
2003	MPH, Distinguished Master's Student Award	Epidemiology	University of Washington School of Public Health, Seattle, WA
2006	DrPH, Distinguished performance, doctoral written exam	Epidemiology	Harvard School of Public Health, Boston, MA

Postdoctoral Training:

<i>Year(s)</i>	<i>Title</i>	<i>Specialty/Discipline</i>	<i>Institution</i>
07/95-07/96	Intern	Internal Medicine	Stanford University
08/96-07/98	Resident	Internal Medicine	Stanford University
08/98-07/02	Fellow	Cardiovascular Medicine	University of Washington
08/00-07/03	Fellow	Health Services Research	Puget Sound Veterans Affairs Health Care System, University of Washington

Faculty Academic Appointments:

<i>Year(s)</i>	<i>Academic Title</i>	<i>Department (Division)</i>	<i>Academic Institution</i>
8/03-9/06	Instructor	Internal Medicine, Channing Laboratory	Harvard Medical School
7/04-6/07	Adjunct Instructor	Public Health and Family Medicine	Tufts School of Medicine, Boston, MA
6/06-3/07	Instructor	Epidemiology	Harvard School of Public Health
10/06-06/10	Assistant Professor	Internal Medicine, Cardiovascular Medicine	Harvard Medical School
4/07-10/10	Assistant Professor	Epidemiology	Harvard School of Public Health
07/10-present	Associate Professor	Internal Medicine (Cardiovascular Medicine)	Harvard Medical School
11/10-present	Associate Professor	Epidemiology	Harvard School of Public Health

NARRATIVE REPORT

I am a cardiovascular epidemiologist with a career-long interest in the effects of lifestyle on cardiometabolic health. My investigations incorporate a variety of paradigms, including leading epidemiologic studies, producing evidence syntheses, organizing and executing clinical trials, and performing national and global demographic and policy analyses. I have conceived and led large interdisciplinary projects and collaborations funded by NIH, private foundations, and industry. As co-founder and co-director of the Harvard Program in Cardiovascular Epidemiology, a cross-disciplinary, multi-institutional program to promote and advance cardiovascular disease research and training that includes investigators from BWH, BIDMC, MGH, HSPH, Boston University, and Tufts, we are “expanding the hallway” for those critical discussions that result in novel, high-impact collaborations while facilitating teaching, mentoring, and training. Other leadership activities include co-founding and co-directing a T32 Training Program; serving as US Director of a D43 International Research Training Program; co-chairing the CHARGE Fatty Acids Working Group; and chairing the international Nutrition and Chronic Disease Expert Group (NutriCoDE).

My overarching aims are to produce robust, high-quality evidence on dietary priorities for cardiometabolic health, corresponding disease-specific burdens globally, and effective and cost-effective policies to reduce these burdens. My research spans three broad themes:

1. *Nutritional discovery*: elucidating how specific nutrients/foods influence cardiometabolic risk, including coronary disease, stroke, heart failure, atrial fibrillation, diabetes, obesity, and intermediary risk factors/pathways, by means of observational studies, population analyses, and randomized trials. Current projects are building upon prior discoveries on how key dietary and metabolic fatty acids, foods, and diet patterns influence cardiometabolic diseases, mortality, and healthy aging.
2. *Global diet and cardiometabolic health*: quantifying intakes of nutrients, foods, and diet patterns globally by age, sex, country, socioeconomic status, and time; and quantifying and modeling impacts on disease. My leadership of NutriCoDE has provided robust quantitative evidence on dietary behaviors and impacts on disease worldwide; with current expansion to include additional dietary risks and clinical outcomes.
3. *Diet policy*: the newest theme, determining comparative- and cost-effectiveness of organizational, legislative, and other policy approaches to improving diet and reducing disease across diverse populations. Whereas policy strategies can be powerful tools to improve diet, much policy to-date has been based on limited data and outdated dietary targets. My investigations aim to provide data-driven, quantitative evidence on effectiveness and cost-effectiveness of diet policies, incorporating evidence synthesis, outcome modeling, and translational research. Three new grants include major aims on diet policies and their effectiveness.

I am committed to teaching and training. The Program in Cardiovascular Epidemiology represents a core foundation for training of students/fellows in cardiovascular epidemiology and population research. In addition to the two NIH training programs that I co-direct, I lead an active research group of students and postdocs, who in the past five years have published 41 peer-reviewed first-author publications, including 28 original investigations, with myself as senior or second author. Eight past trainees are in faculty research positions, and several have received prestigious research awards. I also am Course Director for three graduate courses at HSPH, including two that I founded, on cardiovascular epidemiology and global policies.

I am gratified that my work has been recognized and achieved impact globally, including >28,000 citations (h-index: 67) and numerous national/international invited talks. My research findings have influenced dietary policies and guidelines, including from the US Dietary Guidelines, United Nations, and WHO. I have been involved in several leadership positions at the American Heart Association, including as past member of the Clinical Affairs Committee, Nutrition Committee, and 2020 Goals Strategic Impact Committee; current member of the Committee for Scientific Sessions Planning, Behavior Committee, Sodium Reduction Advisory Task Force, Mission Metrics Task Force, and Leadership Cabinet; and Chair of the Statistics Committee. I have served in advisory roles for the WHO, United Nations, Canadian government, and Chicago Council on Global Affairs.

In sum, my research investigations, mentoring and teaching, and leadership/advisory efforts aim to provide robust, high-quality data on how dietary factors influence cardiometabolic risk and impact dietary policies/guidelines to improve the health of Americans and populations worldwide.

Appointments at Hospitals/Affiliated Institutions:

<i>Year(s)</i>	<i>Position Title</i>	<i>Department (Division)</i>	<i>Institution</i>
8/03-4/07	Research Associate Physician	Internal Medicine	Brigham and Women's Hospital, Boston, MA
8/04-6/09	Staff Physician	Internal Medicine (Cardiology)	West Roxbury VA Medical Center, West Roxbury, MA
5/07-present	Associate Physician	Internal Medicine (Cardiovascular Medicine)	Brigham and Women's Hospital

Administrative Leadership Positions:

<i>Year(s)</i>	<i>Position Title</i>	<i>Institution</i>
<u>Local/Regional</u>		
2004-2006	Course Director, Cardiovascular Epidemiology, MPH 220	Tufts University School of Medicine
2007-present	Course Director, Cardiovascular Epidemiology, EPI 223	Harvard School of Public Health
2007-present	Co-Founder and Co-Director, Program in Cardiovascular Epidemiology	Harvard School of Public Health
2008-present	Course Founder and Director, Cardiovascular Epidemiology II, EPI 245	Harvard School of Public Health
2008-present	PI and Co-Chair, Steering Committee, the Omega-3 Fatty Acids for Prevention of Post-Operative Atrial Fibrillation (OPERA) randomized trial	OPERA Trial
2009-present	Co-Founder and Co-Director, NHLBI T32 National Research Service Award (NRSA) CVD Epi Training Program in Behavior, the Environment, and Global Health	Harvard School of Public Health
2010-present	Member, Steering Committee, Bernard Lown Cardiovascular Scholars Program	Harvard School of Public Health
2011-present	Director, Bunge Research Fellowship in Nutrition and Health	Harvard School of Public Health
2012-present	US Director, D43 Fogarty International Research Training Program, Promoting Capacity Building in Chronic Diseases Research in South America	Harvard School of Public Health
2013-present	Course Co-Founder and Co-Director, Global Cardiovascular and Metabolic Health: Critical Issues in Policy and Translation, Nut 214	Harvard School of Public Health
2013-present	Member, Steering Committee, Flagship Initiative on Comparative Effectiveness Research (CER)	Harvard School of Public Health

Committee Service: (see separate sections below for Professional Societies and Grant Reviews)

<i>Year(s)</i>	<i>Name of Committee</i>	<i>Institution/Organization</i>
<u>Local/Regional</u>		
2007-2009	Member, Doctoral thesis committee,	Department of Global Health and

	Goodarz Danaei	Population, Harvard School of Public Health
2008-present	Member, Admissions Review Committee, Cardiovascular Epidemiology track	Department of Epidemiology, Harvard School of Public Health
2008-2011	Chair, Doctoral thesis committee, Martin Lajous	Department of Epidemiology, Harvard School of Public Health
2010-2011	Chair, Doctoral oral exam committee, Deirdre Banel	Department of Nutrition, Harvard School of Public Health
2012-present	Member, Harvard Faculty Campaign Planning Committee	Harvard School of Public Health
2013-present	Chair, Doctoral thesis committee, Mohammad Yakoob	Department of Epidemiology, Harvard School of Public Health
2013-present	Chair, Doctoral thesis committee, Ashkan Afshin	Department of Epidemiology, Harvard School of Public Health

National

2008-2009	Member, Methylmercury Risk Assessment, Review Group	U.S. Food and Drug Administration / Center for Food Safety and Applied Nutrition
2008-2012	Member, Seafood Education Project Advisory Group	U.S. Department of Agriculture
2008-present	Member, Diabetes Working Group	The Cardiovascular Health Study (CHS)
2008-present	Member, Biosample Research Advisory Group	The Reasons for Geographic and Racial Differences in Stroke (REGARDS) Study
2009-2012	Member, Catfish Risk Assessment Review Group	U.S. Department of Agriculture
2010-present	Member, Scientific Advisory Committee	Oldways Mediterranean Foods Alliance
2011-2012	Member, Healthy Agriculture & Non-Communicable Disease Advisory Group	The Chicago Council on Global Affairs
2012-present	Member, Scientific Advisory Board	Unilever North America
2013	Member, NHLBI-ODS Working Group on Designing Clinical Studies to Evaluate the Role of Nutrition and Diet in Heart Failure Management	National Heart, Lung, and Blood Institute and NIH Office of Dietary Supplements

International

2007-2009	Member, Task Force on Trans Fat Free Americas	Pan American Health Organization / World Health Organization
2007-present	Member, Expert Advisory Committee	Canadian Health Measures Survey (Canada's NHANES)
2007-2012	Chair, Nutrition and Chronic Diseases Expert Group (NutriCoDE)	2010 Global Burden of Diseases, Injuries, and Risk Factors (GBD) Study
2008-2010	Member, Expert Consultation on Fats and Fatty Acids in Human Nutrition	Food and Agriculture Organization of the United Nations

2009-present	Member, Nutrition Working Group	International CHARGE Genome-Wide Association Consortium
2009-2013	Co-Chair, Steering Committee, international OPERA trial	Omega-3 Fatty Acids for Prevention of Post-Operative Atrial Fibrillation (OPERA) randomized trial
2010-2012	Member, Expert Consultation on Risks and Benefits of Fish Consumption	Food and Agriculture Organization of the United Nations / World Health Organization
2010-present	Co-Chair, Fatty Acid Working Group	International CHARGE Genome-Wide Association Consortium
2010-2012	Member, Nutrition Guidance Expert Advisory Group	World Health Organization
2013-present	Member, Scientific Advisory Board	Mexican Teachers' Cohort (ESMaestras), the largest prospective cohort study in Latin-America (>100,00 women)
2013-present	Member, Executive Committee, international STRENGTH trial	Statin Residual Risk Reduction with Epanova in High Cardiovascular Patients with Hypertriglyceridemia (STRENGTH) randomized trial
2013-present	Chair, Nutrition and Chronic Diseases Expert Group (NutriCoDE)	The GBD 2013: Global Burden of Diseases, Injuries, and Risk Factors (GBD) Study update
2013- present	Member, Mission Advisory Panel (MAP) on Sugar	Heart and Stroke Foundation, Canada

Professional Societies:

<i>Year(s)</i>	<i>Name of Society</i>
1998-present	American College of Cardiology
2004-present	Fellow
2010-2012	Member, PINNACLE Registry Research & Publications Subcommittee
2002-present	American Heart Association
2006-present	Fellow
2006-2010	Member, Abstract Selection Committee, Council on Epidemiology and Prevention
2008-present	Member, Abstract Selection Committee, Council on Nutrition, Physical Activity, and Metabolism
2005-2008	Member, Spring Program Committee, Council on Epidemiology and Prevention
2006-2008	Member, Budget and Fund Raising Committee, Council on Epidemiology and Prevention
2008-2010	Chair, Budget and Fund Raising Committee, Council on Epidemiology and Prevention
2007-2009	Member, Clinical Affairs Committee, Council on Nutrition, Physical Activity, and Metabolism

2006-2010	Member, Leadership Committee, Council on Epidemiology and Prevention
2009-2010	Leadership Cabinet, Council on Epidemiology and Prevention
2010-2013	Member, Fall Program Committee, Council on Epidemiology and Prevention
2006-present	Member, AHA Trans Fat Initiative Committee
2008-2010	Member, AHA Nutrition Committee
2007-2011	Member, AHA Statistics Committee
2011-2013	Vice-Chair, AHA Statistics Committee
2008-2010	Member, AHA 2020 Strategic Impact Goals Task Force
2010-present	Member, AHA Behavior Committee
2012-present	Member, AHA Sodium Reduction Advisory Task Force
2013-present	Chair, AHA Statistics Committee
2013-present	Member, Leadership Committee, Council on Epidemiology and Prevention
2013-present	Member, Committee for Scientific Sessions Planning (CSSP)
2013-present	Member, AHA Mission Metrics Task Force
2013-present	Leadership Cabinet, Council on Epidemiology and Prevention

Grant Review Activities:

2008	Reviewer, Endowed Chair Peer-Review Committee	Heart and Stroke Foundation of Ontario, Canada
2009	Reviewer, Challenge Grant (ARRA) Special Emphasis Panel, Stage 1 Scientific Review Group	NHLBI, National Institutes of Health, USA
2010	Reviewer, NIH Director's Opportunity for Research (RC4) Special Emphasis Panel, Stage 1 Scientific Review Group	National Institutes of Health, USA
2012	Reviewer, Superfund Basic Research Program (P42) Scientific Review Group	NIEHS, National Institutes of Health, USA
2012	Reviewer, Diabetes Research Center (DRC) Pilot and Feasibility Grant	Washington University, USA
2012	Reviewer, Effective Health Care reports, Evidence-based Practice Center (EPC) Program	Agency for Healthcare Research and Quality (AHRQ), USA
2013	Reviewer, Collaborative Research & Innovation Opportunities Program	Programs of Alberta Innovates Health Solutions (AIHS), Canada
2013	Reviewer, PA 12-265 Ancillary Studies to Major Ongoing Clinical Research Studies (R01)	NIDDK, National Institutes of Health, USA
2013	Reviewer, Endowed Chair Peer-Review Committee	Heart and Stroke Foundation of Ontario, Canada
2013	Reviewer, Strategic initiatives at the	Research Council of Norway

	Institute of Marine Research and National Institute of Nutrition and Seafood Research	
2013	Reviewer, American Diabetes Association Position Paper on Nutrition Recommendations for the Management of Diabetes	American Diabetes Association, USA
2013	Reviewer, 2013/10 ZAG1 ZIJ-8 (02) – Heart Failure and Obesity Program Project Applications	NIA, National Institutes of Health, USA

Editorial Activities:

Ad hoc reviewer:

The New England Journal of Medicine
JAMA
The Lancet
Circulation
Arteriosclerosis, Thrombosis and Vascular Biology
Journal of the American College of Cardiology
Annals of Internal Medicine
Archives of Internal Medicine (now JAMA Internal Medicine)
PLOS Medicine
PLOS One
American Journal of Clinical Nutrition
American Journal of Epidemiology
American Journal of Preventive Medicine
British Medical Journal
BMC Medicine
European Journal of Clinical Nutrition
British Journal of Nutrition
Hypertension
Lipids

Editorial boards:

Global Heart, the Journal of the World Heart Federation

Honors and Prizes:

<i>Year</i>	<i>Honor/Prize</i>	<i>Awarding Institution</i>	<i>Achievement for which awarded</i>
1991	Phi Beta Kappa	Stanford University	Academic excellence
1992	Rhodes Scholar Finalist, State of Washington	Rhodes Scholar Program	Academic excellence
1995	Alpha Omega Alpha	Columbia U. College of Physicians & Surgeons	Academic excellence
1995	Marie Necessian Memorial Award	Columbia U. College of Physicians & Surgeons	Top graduating student showing care and empathy for patients
2001	Finalist, Jeremiah Stamler Award for New Investigators	American Heart Association	Award for excellence in original research
2002	Nutrition Advisory Panel New Investigator Award	American Heart Association	Award for excellence in original research

2003	Distinguished Master's Degree Student Award	University of Washington School of Public Health	Academic and research excellence
2005	Distinguished performance, doctoral written exam	Harvard School of Public Health	Academic excellence on the epidemiology doctoral exam
2007	Searle Scholar Award	The Searle Funds at The Chicago Community Trust	Research excellence
2007-present	Commendation for excellence in teaching, received each year	Committee on Educational Policy, HSPH	High overall rating by students for teaching, Cardiovascular Epidemiology course
2008-present	Commendation for excellence in teaching, received each year	Committee on Educational Policy, HSPH	High overall rating by students for teaching, Cardiovascular Epidemiology II course
2009	Best Paper among All Open Access Journals in the Past Five Years	PLoS Medicine Editorial Board	Co-investigator, manuscript in PLoS Medicine. 2009;6:e1000058
2010	Outstanding Mentor Award Nomination	Harvard School of Public Health	Excellence in mentoring
2011	Top 20 Research Articles Published in PLoS Medicine in 2010	PLoS Medicine	First author, manuscript in PLoS Medicine. 2010; 7:e1000252.
2013	The Nutrition Society Paper of the Month	The Nutrition Society, UK	Co-investigator, manuscript in Public Health Nutrition.
2013	Top (#1) rated favorite session by attendees at EB 2013 (14,680 total attendees)	Experimental Biology (EB) 2013	Invited plenary speaker at the top-rated session of the meeting: Obesity, Metabolic Complications and Type 2 Diabetes: Beyond Body Fat
2013	Outstanding Mentor Award Nomination	Harvard School of Public Health	Excellence in mentoring

REPORT OF FUNDED AND UNFUNDED PROJECTS

Funding Information:

<i>Year(s) funded</i>	<i>Role on project</i>	<i>Funding source Grant type and number</i>	<i>If PI/site PI, total Direct Costs</i>
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PAST

Mitigation by Atorvastatin of Heart Failure Inflammation (MAHI).

2002-2004	co-PI	Pfizer Research Grant Investigator-initiated individual research project	\$83,400
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This is a randomized, double blind, placebo-controlled trial to test the effect of statin therapy on systemic inflammation, exercise tolerance, and quality of life in patients with heart failure.

Diet and Genetic Interactions in Relation to Coronary Heart Disease

2003-2005	Co-Invest.	American Heart Association Individual investigator-initiated grant
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Major aims are to evaluate new and timely hypotheses concerning the dietary and genetic determinants of cardiovascular disease. My role was to lead specific analyses and manuscripts related to the primary aims.

Fatty Acids and Cardiovascular Health

2004-2008 PI NIH/NHLBI \$620,000
Mentored training grant
K08 HL 075628

Major aims are to define more clearly relationships of diet, particularly dietary fatty acids, with cardiovascular disease.

Tanzania Population Health Implementation and Training (PHIT) Partnerships Planning Grant

2008-2009 Consultant Doris Duke Charitable Foundation
Individual investigator-initiated grant

Major aims are to develop plans for partnerships to implement and evaluate delivery of integrated primary healthcare in developing world regions. I served as the chief US consultant for the development of the intervention programs to reduce chronic diseases in these regions.

Global Burden of Diseases Nutrition and Chronic Diseases Expert Group

2007-2009 PI Global Burden of Diseases, Injuries, and Risk
Factors (GBD) Study Nutrition and Chronic
Diseases Expert Group (NutriCoDE), Bill &
Melinda Gates Foundation, Research project

Major aims are to quantitate the global impact, including exposure and relative risk distributions, of major nutritional risks for cardiovascular diseases and cancers in 21 developed and developing world regions.

Dietary Fatty Acids, Congestive Heart Failure, and Atrial Fibrillation

2007-2011 PI The Searle Funds at The Chicago Community
Trust, Searle Scholar Award \$240,000
Individual investigator-initiated grant

Major aims are to elucidate the intersection of effects of dietary and tissue levels of omega-3 and trans fatty acids and genetic variation on risk of heart failure and atrial fibrillation.

Mercury, Selenium, and Risk of Cardiovascular Disease in Women and Men

2007-2012 PI NIH/NIEHS and NHLBI \$2,128,899
Individual investigator-initiated grant
R01 ES 014433

Major aims are to investigate prospectively the relationships of toenail mercury and selenium levels, objective biomarkers of environmental exposure, and fish and n-3 fatty acid intake with incidence of coronary heart disease and stroke in men and women in two large prospective cohort studies.

Mercury, Selenium and Risk of Cardiovascular Disease in Women and Men - Supplement

2009-2012 PI NIH/NIEHS \$724,181
Individual investigator-initiated grant - ARRA
3R01 ES014433-03S1

Major aims are to prospectively investigate the independent effects of omega-3 fatty acids, mercury, and selenium, each assessed using objective biomarkers, with risk of both coronary heart disease and stroke in men and women; and use this data to develop an evidence-based risk assessment framework to derive quantitative risk-benefit estimates for cardiovascular effects of consuming specific fish species.

Fatty Acids and Major Cardiovascular Outcomes in Older Adults

2006-2012 PI NIH/NHLBI \$1,679,681
Individual investigator-initiated grant
R01 HL 085710

Major aims are to investigate prospectively the relationships of plasma phospholipid omega-3 and trans fatty acid levels, objective biomarkers of dietary intake, with incidence of congestive heart failure, atrial fibrillation, and total mortality among older adults in a prospective, population-based, multicenter cohort.

Fatty Acids and Major Cardiovascular Outcomes

2009-2012 PI NIH/NHLBI \$173,573
Individual investigator-initiated grant - ARRA
3R01 HL085710-03S1

Major aims are to support a postdoctoral fellow with research funds for biological analyses and cutting-edge fatty acid “pattern” investigation to extend advanced diet pattern techniques to the analysis of circulating fatty acids to identify novel fatty acids inter-relationships and diet-metabolic phenotypes.

Inflammation/Oxidation, Omega-3's, and Post-Op Atrial Fibrillation and Cognitive Decline

2009-2012 PI NIH/NHLBI \$ 3,103,054
Individual investigator-initiated grant - ARRA
RC2 HL101816

Major aims are to assess key circulating and tissue biomarkers to investigate novel mechanistic pathways whereby post-op cognitive decline and fibrillation may each occur and also test whether fish oil decreases these post-op complications by preventing oxidative stress and subsequent inflammation.

Dietary Biomarkers, Genetic Variation, and Novel Markers of Metabolic and Cardiovascular Risk

2007-2011 PI Harvard School of Public Health, Genes and \$200,000
Environment Initiative
Individual investigator-initiated grant

Major aims are to investigate how genome-wide variation affects individual responses to chronic mercury and selenium exposure and the potential biologic pathways mediating these identified genetic effects.

Human Genetic Variation In Fatty Acid Metabolism And Sudden Cardiac Arrest

2008-2012 Co-Invest. NIH/NHLBI
Individual investigator-initiated grant
R01 HL091244-01

Major aims are to investigate associations between human genetic variation in fatty acid metabolism and the risk of sudden cardiac arrest. My role is to collaborate on analyses and manuscripts related to the primary aims.

Determinants and Cardiovascular Consequences of Diabetes in Older Adults

2009-2013 Co-Invest. NIH/NHLBI
Individual investigator-initiated grant
R01 HL094555

Major aims are to evaluate pathways in development and cardiovascular prognosis of diabetes in older adults, including related to adipocyte function, calcium metabolism, advanced glycation endproducts, and fibrosis. I assisted in development of aims, research design, and methods, particularly on how lifestyle factors may affect these pathways and outcomes, and collaborated on analyses and manuscripts.

Omega-3 Fatty Acids for Prevention of Post-Operative Atrial Fibrillation (OPERA)

2009-2013 co-PI GSK, Sigma Tau, and Pronova \$5,053,713
Investigator-initiated industry-funded international
multi-center phase 3 clinical trial

This multicenter randomized controlled clinical trial will determine whether peri-operative fish oil consumption reduces the occurrence of atrial fibrillation following cardiac surgery and also investigate biologic, genetic, and electrophysiologic pathways of effects. I serve as co-PI of OPERA and co-Chair of the Steering Committee.

Endogenous Anti-Inflammatory Lipid Mediators, Fish Oil and Post-Operative Atrial Fibrillation

2011-2013 PI NIH/NHLBI \$ 275,000
Individual investigator-initiated grant
R21 HL109924

Major aims are to evaluate how a novel class of potent anti-inflammatory molecules derived from omega-3's, MEFAs, relate to pro-inflammatory biomarkers and to risk of post-op atrial fibrillation, and whether

intra-operative plasma MEFAs are modified by fish oil treatment.

CURRENT

CVD Epidemiology Training Program in Behavior, the Environment and Global Health

2009-2014	co-PI	NIH/NHLBI	\$ 896,166
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Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Research Training Grants (T32)
T32 HL098048

Major aims of this new training program are to train pre-doctoral students and post-doctoral fellows to create a new generation of highly skilled investigators to study the impact of behavioral and environmental risk factors and policy on cardiometabolic diseases globally.

Bunge Fellowship in Nutrition and Health

2012-2016	PI	Bunge Fellowship in Nutrition and Health	\$ 400,000
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Major aims are to create and support a postdoctoral training fellowship, based on an unrestricted gift from Bunge Global Innovation, LLC, to support the training of a young scientist in investigation of nutrition, human health promotion, and chronic disease prevention.

Promoting Capacity Building in Chronic Diseases Research in South America

2012-2017	US PI	NIH/Fogarty	\$ 1,020,463
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Fogarty International Research Training Award
D43 TW009126

D43 program for collaborative research training between Harvard and IECS in Argentina, to sustainably strengthen the research capacity of in Argentina and train in-country experts to conduct research on chronic, non-communicable diseases and disorders across the lifespan, with the ultimate goal of implementing evidence-based interventions relevant to their countries.

Global Dietary Habits Among Women, Price and Income Elasticities, and Validity of Food Balance Sheets

2012-2014	PI	Bill & Melinda Gates Foundation	\$ 694,423
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Major aims are to systematically evaluate dietary quality in women, including by age and time, in all nations around the globe; to determine using nationally representative data the price and income elasticities of dietary intakes across regions, countries, and time, and differences by age and sex; and to quantify the validity of FAO food balance sheets, including evaluation of heterogeneity.

Comparative-Effectiveness of Population Strategies to Improve Diet

2013-2014	PI	The Sackler Institute for Nutrition Science, The New York Academy of Sciences	\$50,000
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Individual investigator-initiated grant

Major aims are to quantify the comparative-effectiveness of food regulation, food pricing, and schools and workplace programs to improve dietary habits.

Quantifying human vulnerability to changes in crop nutrients resulting from rising concentrations of atmospheric carbon dioxide

2013-2015	Co-Invest.	Bill & Melinda Gates Foundation	
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Individual investigator-initiated grant

To quantify accurate estimates of the CO₂ effect on the nutrient intake of different population groups, by age and sex, in different countries across the globe; and evaluate nutritional impacts of loss of pollinators and ways in which ocean acidification (from CO₂) are likely to alter human nutrient and dietary intakes.

Circulating Dietary & Metabolic Fatty Acids, Major CVD Outcomes, & Healthy Aging

2013-2017 PI NIH/NHLBI \$ 1,827,648
 Individual investigator-initiated grant
 2R01 HL085710

Major aims are to investigate associations of serial levels, and changes, of key circulating fatty acid biomarkers with incident CVD, total mortality, and healthy aging late in life.

Comparative-Effectiveness of Population Strategies to Improve Diet and Reduce CVD

2013-2017 PI NIH/NHLBI \$ 2,283,473
 Individual investigator-initiated grant
 1R01 HL115189

Major aims are to evaluate the comparative-effectiveness of evidence-based population interventions to improve diet globally, and their projected impact on CVD, other chronic diseases, mortality, and DALYs in the US.

Global Dietary Database - Global Dietary Intakes, Diseases, and Policies among Children, Women, and Men

2013-2016 PI Bill & Melinda Gates Foundation \$ 2,589,401

Major aims are to systematically update and expand data on global dietary intakes in adults, youth (from infancy to adolescence) and pregnancy/nursing, including by rural/urban and income status; to evaluate and quantify the health impact of specific dietary factors throughout the lifespan; and to characterize and compare cost-effectiveness of specific diet policy interventions to reduce the identified burdens.

PENDING

Arsenic, Selenium and Risk of Cardiovascular Disease in Women and Men

2013-2018 PI NIH/NIEHS \$ 2,801,599
 Competitive renewal of R01-ES014433
 Score 37 (38%) on first submission; will re-submit

Major aims are to investigate how arsenic relates to incident CVD, diabetes, and hypertension in two separate large prospective cohorts of US men and women, and whether selenium modifies these relations.

TMAO and Initiation, Extent, and Clinical Onset of Atherosclerotic CVD

2014-2019 PI NIH/NHLBI \$ 3,288,929
 Investigator-initiated R01
 submitted

Major aims are to investigate how trimethylamine-*N*-oxide (TMAO), a metabolite of L-carnitine and lecithin in red meat, eggs, chicken, milk, and fish, relates to initiation, extent, and onset of atherosclerosis and clinical cardiovascular events in two independent, large, prospective community-based US cohorts.

CVD Epidemiology Training Program in Behavior, the Environment and Global Health

2014-2019 co-PI NIH/NHLBI \$ 2,761,238
 Ruth L. Kirschstein National Research Service
 Award (NRSA) Institutional Research Training
 Grants (T32)
 2 T32 HL098048
 Score 25 (within funding range last year), pending
 council review

Major aims of this competitive renewal are to train pre-doctoral students and post-doctoral fellows to create a new generation of highly skilled investigators to study the impact of behavioral and environmental risk factors and policy on cardiometabolic diseases globally.

REPORT OF LOCAL TEACHING AND TRAINING

Teaching of Students in Courses: *

<i>Year(s)</i>	<i>Course title Type of student/audience</i>	<i>Location Role in course, Level of effort</i>
<i>*Course Director positions are listed under Administrative Leadership Positions, above</i>		
2000, 2001	Human Biology 540 Second year medical students	University of Washington Cardiac Physiology section co-instructor, one 3-hr session per wk for 8 wks each year
2006	Science B-23, Foods, Dietary Habits, and Human Health Undergraduate students	University of Washington Section Leader, one 2-hr session per wk for 8 wks
2010	Human Systems - Introduction to Clinical Nutrition Second year medical students	Harvard Medical School Guest lecturer, one 1-hr session
2005	Nutritional Epidemiology Doctoral and masters students	Harvard School of Public Health Teaching assistant, one 2-hr session per wk for 10 wks
2003 to 2006	Cardiovascular Epidemiology Doctoral and masters students	Harvard School of Public Health Guest lecturer, one 2-hr session annually
2006 to present	Principles of Screening Doctoral and masters students	Harvard School of Public Health Guest lecturer, one 2-hr session annually
2010 to present	Global Nutrition Doctoral and masters students	Harvard School of Public Health Guest lecturer, one 2-hr session annually

Clinical Supervisory and Training Responsibilities:

<i>Year(s)</i>	<i>Type of responsibility</i>	<i>Institution</i>	<i>Level of effort</i>
2003-2004	Preventive Cardiology Clinic Attending	Boston VA Health Care System, West Roxbury	One half session per week
2004-2006	Echocardiography Suite Attending	Boston VA Health Care System, West Roxbury	One full day per month
2008	Cardiology Consult Service Attending	Brigham and Women's Hospital	Two half-month blocks per year
2009 to present	Cardiology B Team Attending	Brigham and Women's Hospital	Two half-month blocks per year
2009 to present	Cardiology Fellows Clinic Attending	Brigham and Women's Hospital	Several half-day clinics per year

Formally Supervised Trainees – Past:

<i>Year(s)</i>	<i>Name and degrees</i>	<i>Current position*</i>
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**Tenure track faculty positions*

2006-2008	Eric Ding, ScD	Research scientist, Department of Nutrition, Harvard School of Public Health.
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Mentored as a Doctoral student. Diet and stroke risk, published. Obtained postdoctoral fellowship position at HSPH.

2007-2008 **Jyrki Virtanen, PhD** *Adjunct Professor (tenure-track faculty), University of Kuopio, School of Public Health and Clinical Nutrition, Research Institute of Public Health.
 Postdoc in my group. Fish consumption and chronic diseases, several publications. Obtained tenure-track faculty position.

2007-2008 **Divay Chandra, MD MPH** *Instructor of Medicine, Department of Medicine, University of Pittsburgh
 Mentored as a Masters student. Travel and risk of venous thromboembolism, published in Annals of Internal Medicine. Obtained clinical fellowship position and then tenure-track faculty position.

2007-2009 **Goodarz Danaei, MD** *Assistant Professor (tenure-track faculty), Department of Global Health and Population, HSPH
 Doctoral Thesis Committee member. Modifiable risk factors and burden of mortality in the US, published in Plos Medicine. Obtained tenure-track faculty position.

2008-2010 **Kyong Park, PhD** *Assistant Professor (tenure-track faculty), Food and Nutrition, Yeungnam University, South Korea
 Postdoc in my group. Predictors of selenium levels; selenium status and incident diabetes and hypertension; vitamin E and incident coronary heart disease; and GWAS of mercury and selenium levels. Obtained tenure-track faculty position.

2008-2009 **Pattra Wirojratana, BS MPH** Research consultant, Mapi Values, Boston
 Masters Thesis Advisor. Impact of multiple dietary habits on coronary heart disease and stroke mortality burden in the US.

2008-2009 **Sarah Wallace, BS** Medical student, Johns Hopkins University
 Junior research fellow in my group. Trans fatty acids and nonlipid risk factors; relationships of meat consumption with cardiovascular diseases and diabetes; effects of exchanging saturated fats with polyunsaturated fats on coronary heart disease. Several publications. Accepted to medical school.

2008-2011 **Renata Micha, PhD** *Research Associate (Instructor-equivalent), Dept of Epidemiology, HSPH
 Postdoc in my group. Dietary risk factors for cardiovascular disease and diabetes. Principal coordinator of the WHO Global Burden of Disease Nutrition Expert Group. Numerous publications.

2008-2009, **Shadi Kalantarian, MD** Research assistant, Massachusetts General Hospital, Boston
 2010-2011 **MPH**
 Visiting scientist 2008-09, Masters Thesis Advisor 2010-2011. Gene-diet interactions and quantitative progression of coronary atherosclerosis in postmenopausal women. HSPH Lown Scholar., 2010-2011.

2008-2011 **Martin Lajous, MD DrPH** *D Level Researcher (tenure-track faculty), Unit for Diabetes and Cardiovascular Risk, Center for Population Health Research, National Institute of Public Health, Mexico City
 Doctoral Thesis Committee chair. Fish consumption and risk of new-onset atrial fibrillation in men; lifestyle risk intervention for cancer survivors to prevent CVD. HSPH Lown Scholar, 2010-2011. Obtained tenure-track faculty position.

2009-2013 **Jason Wu, PhD** *Theme Leader (tenure-track faculty), Nutrition and Metabolism, South Australian Health and Medical Research Institute, Adelaide, Australia

Postdoc in my group. Biomarkers of fatty acid synthesis and risk of coronary disease; GWAS of fatty acids of endogenous synthesis; omega-3 fats and atrial fibrillation.

2009-2013 **Fumiaki Imamura, PhD** *Investigator Scientist (tenure-track faculty),
Medical Research Council (MRC) Epidemiology
Unit, University of Cambridge, UK

Postdoc in my group. Fatty acid patterns, long-chain monounsaturated fatty acids, and incident coronary heart disease and diabetes in older adults. Obtained tenure-track faculty position.

2010-2011 **Deirdre Banel, DrPH** Research Fellow, Dept of Nutrition, HSPH

Doctoral Oral Exam Committee Chair, Doctoral Dissertation Committee member, when a doctoral student. Risk factors for and cardiovascular consequences of gestational diabetes.

2012-2013 **Fadar Otite, MD MPH** Neurology clinical residency, U. of Miami
Trainee in my group for 1 year. Published an original research investigation on product reformulations to reduce trans fat content in the US, including variations over time, by type of product, and by company.

Formally Supervised Trainees – Current:

2010- **Mohammad Yakoob, MD** Doctoral student, Dept of Epidemiology, HSPH
Doctoral Advisor. Nutritional and epidemiologic transitions related to noncommunicable chronic diseases in South Asia.

2010- **Ashkan Afshin, MD MPH** Doctoral student (2011-), Epidemiology, HSPH
(Postdoctoral fellow, 2010-2011)
Trainee in my group; Doctoral Advisor. Policy interventions to improve lifestyle, dietary factors, and dietary patterns.

2010- **Luisa Miranda, PhD RN** Medical student, Porto University; Visiting scientist,
HSPH
Visiting doctoral student in my group. Trans fat intake and biomarkers and heart rate variability; physical activity and fitness and change in telomere length; physical activity and incident CVD in the elderly.

2012- **Qianyi Wang, BS** Doctoral student, Dept of Epidemiology, HSPH
Doctoral Advisor. Circulating fatty acid biomarkers and total and cause-specific mortality.

2013- **Saman Fahimi, MD MPH** Doctoral candidate, U. of Cambridge UK, fellow,
Dept of Epidemiology, HSPH
Long-term visiting doctoral candidate in my group. Global burden of cardiovascular diseases and cancers related to sodium intakes.

2013- **Lauren Tanz, MPH** Doctoral student, Dept of Epidemiology, HSPH
Doctoral Advisor. Global cardiometabolic diseases and dietary policies to reduce this burden.

2011- **Gitanjali Singh, PhD MPH** Postdoctoral fellow, Dept of Epidemiology, HSPH
Postdoc in my group. Global burdens of CVD and diabetes related to dietary risk factors; meta-analysis of randomized controlled feeding trials of dietary patterns.

2012- **Marcia Otto, PhD** Postdoctoral fellow, Dept of Epidemiology, HSPH
Postdoc in my group. Dairy fat and fatty acid biomarkers and risk of cardiovascular diseases; dietary diversity and risk of weight gain and diabetes.

2012- **Liana Del Gobbo, PhD** Postdoctoral fellow, Dept of Epidemiology, HSPH

Postdoc in my group. Magnesium and risk of cardiovascular diseases; validity of global FAO food disappearance data.

2012- **Jessica Smith, PhD** Postdoctoral fellow, Dept of Epidemiology, HSPH

Postdoc in my group, CIHR fellowship. Diet, lifestyle, and weight gain and obesity.

2013- **Shahab Khatibzadeh, MD MPH** Postdoctoral fellow, Dept of Epidemiology, HSPH

Postdoc in my group. Global burden of chronic noncommunicable diseases related to dietary habits.

Trainee Honors and Awards:

Luísa Soares-Miranda:

2007 Portuguese Foundation for Science and Technology (FCT) grant BD/38502/2007

2007-2011 Porto study supported by FCT Portugal grant PTDC/DES/101333/2008

Fumiaki Imamura:

2009 National Institute of Health Administrative Supplement Award (PI-Mozaffarian), American Recovery and Reinvestment Act of 2009 (3R01 HL085710-03S1).

2010 Harvard Program in Cardiovascular Epidemiology Fellow and Trainee Friday Forum – Annual Winner, Boston, MA.

2010 Fellowship, the International Union of Nutritional Sciences Workshop on Capacity and Leadership Development in Nutritional Sciences, Tokyo, Japan.

2011 Epidemiology and Prevention Early Career Research Grant, American Heart Association, Atlanta, GA.

2012 Fellowship, 44th Ten-Day International Teaching Seminar on CVD Epidemiology and Prevention, Cape Town, South Africa.

2012 Scott Grundy Fellowship Award for Excellence in Metabolism Research, American Heart Association, San Diego, CA.

2013 Finalist, Jeremiah and Rose Stamler Research Award for New Investigators, American Heart Association.

Martin Lajous:

2009 Rose Travel Fellowship, Harvard School of Public Health, Boston, MA.

2009 National researcher, Level 1 Sistema Nacional de Investigadores, CONACYT (National Council for Science and Technology), Mexico.

2010-2011 Bernard Lown Scholars Program, Harvard School of Public Health, Boston, MA.

Shadi Kalantarian:

2010-2011 Bernard Lown Scholars Program, Harvard School of Public Health, Boston, MA.

Renata Micha:

2010 Finalist, Jeremiah and Rose Stamler Research Award for New Investigators, American Heart Association.

2010 Epidemiology and Prevention Early Career Travel Award, American Heart Association.

Jason Wu:

2010-2011 Australian National Heart Foundation Research Fellowship.

Deirdre Banel:

2011 Student Travel Scholarship Award, Society of Epidemiologic Research Annual Meeting, Montreal, Canada

- 2011 Outstanding Poster Award, Society of Pediatric and Perinatal Epidemiologic Research Annual Meeting, Montreal, Canada
- 2011 Best Plenary Presentation, Society of Pediatric and Perinatal Epidemiologic Research Annual Meeting, Montreal, Canada

Sarah Wallace:

- 2011-2012 Doris Duke Clinical Research Fellowship, University of Pennsylvania School of Medicine, Philadelphia, PA.

Mohammad Yakoob:

- 2011-2012 Bernard Lown Scholars Program, Harvard School of Public Health, Boston, MA.
- 2012-2014 Predoctoral Fellowship Award, American Heart Association.
- 2014 Epidemiology and Prevention New Investigator Travel Award, American Heart Association.

Saman Fahimi:

- 2013 Sandra A. Daugherty Award for Excellence in Cardiovascular Disease or Hypertension Epidemiology, American Heart Association.

Marcia Otto:

- 2013-2015 Swiss Re-Harvard Fellowship Award.

Ashkan Afshin:

- 2013-2014 Harvard Global Health Graduate Fellowship Award.

Michael Webb:

- 2014 Finalist, Jeremiah and Rose Stamler Research Award for New Investigators, American Heart Association.

Wenjie Ma:

- 2014 Epidemiology and Prevention New Investigator Travel Award, American Heart Association.

Formal Teaching of Peers (e.g., CME courses) – Harvard Sponsored:

<i>Year(s)</i>	<i>Title or topic of talk(s) Course Name</i>	<i>Number of talks Location</i>
2009	<i>Fish oil and cardiovascular health. Cardiovascular Medicine: Review and Update for the Practitioner.</i>	Single presentation. Boston, MA.
2011	<i>Nutritional measures to curb the pandemic of overweight, metabolic syndrome, and obesity. Cardiovascular Medicine: Review and Update for the Practitioner.</i>	Single presentation. Boston, MA.
2013	<i>Advice to promote heart-healthy eating and optimize cardiovascular nutrition. Cardiovascular Medicine: Review and Update for the Practitioner.</i>	Single presentation. Boston, MA.

Local Invited Presentations:

<i>Year(s)</i>	<i>Title of presentation Department/Institution</i>	<i>Type of presentation Sponsor/compensation*</i>
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*For presentations supported by outside entities, the sponsor is identified.

2003	<i>Statin therapy in congestive heart failure.</i> Division of Cardiology, University of Washington	Cardiology Grand Rounds.
2005	<i>Fish intake, atrial fibrillation, and insights into potential mechanisms of effect.</i> Division of Cardiology, BIDMC.	Cardiology Grand Rounds.
2006	<i>Fish, n-3 fatty acids, and cardiovascular health – Current evidence for risks and benefits.</i> Division of Cardiovascular Medicine, BWH.	Cardiovascular Medicine Grand Rounds.
2007	<i>Trans fatty acids, cardiometabolic health, and implications for policy.</i> Department of Nutrition, Harvard School of Public Health.	Research Seminar.
2008	<i>Trans fatty acids, cardiometabolic health, and implications for policy.</i> Harvard Prevention Research Center, HSPH.	Research Seminar.
2008	<i>Trans fatty acids: Effects on cardiometabolic health and implications for policy.</i> Division of Cardiovascular Medicine, BWH.	Cardiovascular Medicine Grand Rounds. none.
2009	<i>Global dietary habits and the burden of cardiovascular diseases and cancer.</i> Dean's Office, Harvard School of Public Health.	HSPH Community Forum.
2009	<i>Health risks and benefits of fish consumption.</i> Nutrition Round Table, Harvard School of Public Health.	Plenary Talk.
2009	<i>The impact of diet on the global burden of cardiovascular diseases.</i> Harvard Initiative for Global Health. Cardiovascular Disease in Developing Countries: Moving Forward.	Plenary Talk.
2010	<i>Risks and benefits of fish consumption.</i> Harvard School of Public Health Hot Topics.	School-wide Forum.
2010	<i>Nutrition and global burden of chronic diseases.</i> Nutrition and Global Health, 12th Annual Postgraduate Nutrition Symposium, Harvard School of Public Health.	Plenary talk.
2011	<i>Changes in diet and lifestyle and long-term weight gain in women and men.</i> Boston Obesity Working Group, Boston, MA.	Research Seminar.
2011	<i>Changes in diet and lifestyle and long-term weight gain in women and men.</i> Nutrition Round Table, Harvard School of Public Health.	Plenary Talk.
2011	<i>Policy approaches to reduce the burden of chronic diseases in the US and globally.</i> Chronic Disease: from Research to Policy, Harvard School of Public	School-wide Forum.

	Health.	
2012	<i>Diet and cardiometabolic risk – new insights and priorities.</i> Primary Care Residency Conference, Brigham and Women’s Hospital.	Teaching Conference
2012	<i>Diet and cardiometabolic risk in the 21st century: Key targets, key interventions.</i> Department of Anesthesiology, Brigham and Women’s Hospital.	Grand Rounds.
2013	<i>The global burden of obesity-related mortality due to sugar sweetened beverages.</i> Department of Nutrition, Harvard School of Public Health.	Grand Rounds.
2013	<i>Food addiction, marketing and obesity.</i> The Forum at Harvard School of Public Health	Dean’s live-webcasting series.

REPORT OF REGIONAL, NATIONAL, AND INTERNATIONAL INVITED TEACHIING AND PRESENTATIONS

Regional Invited Teaching and Presentations:

<i>Year(s)</i>	<i>Title of Presentation</i> <i>Department/Institution</i>	<i>Type of Presentation</i> <i>Sponsor/compensation*</i>
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**For presentations supported by outside entities, the sponsor is identified.*

2006	<i>Trans fatty acids and cardiovascular disease: The current evidence.</i> Division of Cardiology, Boston Medical Center, Boston, MA.	Cardiology Grand Rounds.
2009	<i>Global dietary habits and the burden of cardiovascular diseases.</i> Framingham Heart Study, Framingham, MA.	Framingham Research Conference.
2010	<i>Health benefits and risks of fish consumption.</i> Oldways Seafood and Health Conference, Cambridge, MA.	Plenary Talk
2011	<i>Diet and global burdens of chronic diseases.</i> Weatherhead Center for International Affairs' Workshop on the Sustainability of the World's Food and Farming Systems, Harvard Kennedy School Center for International Development, Cambridge, MA.	Plenary Talk.
2011	<i>Fish oil, omega-3 fatty acids, and cardiovascular health.</i> Division of Cardiology, Boston Medical Center, Boston, MA.	Cardiology Grand Rounds.
2012	<i>Fish oil and cardiovascular disease.</i> Boston University School of Medicine, Boston, MA.	Clinical Nutrition Research graduate course
2012	<i>Diet for a healthy heart and global cardiovascular disease</i>	School-wide Seminar.

prevention.
Tufts University Nutrition Seminar, Boston, MA.

National Invited Teaching and Presentations:

<i>Year(s)</i>	<i>Title of Presentation Department/Institution</i>	<i>Type of Presentation Sponsor/compensation*</i>
<i>*For presentations supported by outside entities, the sponsor is identified.</i>		
2003	<i>Statin therapy in congestive heart failure.</i> Division of Cardiology, University of Washington	Cardiology Grand Rounds.
2004	<i>Lifestyles of older adults: Can we influence cardiovascular risk in older adults?</i> American Heart Association Scientific Sessions, New Orleans, LA.	Plenary talk.
2005	<i>Trans fatty acids and cardiovascular health.</i> American Oil Chemists Society Annual Meeting, Salt Lake City, UT.	Plenary talk, Hot Topics Symposium.
2005	<i>Health disparities.</i> American Heart Association Conference on Cardiovascular Epidemiology and Prevention, Washington, D.C.	Session chair.
2005	<i>Fish and cardiovascular health – the current evidence, uncertainties, and unanswered questions.</i> Institute of Food Technologists Annual Meeting, New Orleans, LA.	Plenary talk.
2005	<i>Fish and cardiovascular benefits.</i> National Oceanic and Atmospheric Administration (NOAA) Seafood and Health Meeting, Washington, D.C.	Plenary talk.
2006	<i>Dietary habits and cardiovascular disease prevention.</i> Department of Medicine, Puget Sound Veterans Affairs Health Care Center, Seattle, WA.	Chief of Medicine Rounds.
2006	<i>Fish, contaminants, and cardiovascular health – Clearing up confusion about risks and benefits.</i> Division of Cardiology, University of Washington School of Medicine, Seattle, WA.	Division of Cardiology Research Conference.
2006	<i>Obesity and Lifestyle.</i> American Heart Association Conference on Cardiovascular Epidemiology and Prevention, Phoenix, AZ.	Session chair.
2006	<i>Fish, contaminants, and human health – evaluating the risks and benefits.</i> Department of Health Research and Policy, Stanford University, Stanford, CA.	Research Seminar.

2006	<i>Trans fatty acids and cardiovascular disease: Current evidence.</i> Division of Cardiovascular Medicine, Stanford University, Stanford, CA.	Cardiopulmonary Research Seminar.
2006	<i>Trans fatty acids and cardiovascular disease.</i> 15th Annual Lipid Disorders Training Center Programs, Johns Hopkins University, Baltimore, MD.	Plenary talk.
2006	<i>Should EBCT or MSCT be used to screen patients for CAD?</i> Transcatheter Cardiovascular Therapeutics (TCT) Annual Meeting, Washington D.C.	Plenary talk.
2006	<i>Trans fatty acids – Impact on cardiovascular health in the U.S.</i> Affairs of the Heart: Beyond LDL Cholesterol, Medical Society of Delaware, Newark, DE.	Plenary talk.
2006	<i>Trans fatty acids: The impact on cardiovascular disease, diabetes, and obesity.</i> Endocrine Days Educational Institute, Seattle, WA.	Plenary talk.
2007	<i>Nutrition.</i> American Heart Association Conference on Cardiovascular Epidemiology and Prevention, Orlando, FL.	Session chair.
2007	<i>Trans fatty acids and cardiovascular disease, diabetes, and obesity.</i> Symposium on Trans Fatty Acids, Wayne State University, Detroit, MI.	Plenary talk.
2007	<i>Cardiovascular benefits of omega-3 and omega-6 fatty acids.</i> National Lipid Association Scientific Sessions, , Scottsdale, AZ.	Plenary talk.
2007	<i>Health effects of fish consumption.</i> National Marine Aquaculture Summit, U.S. National Oceanic and Atmospheric Administration, Washington, DC.	Opening Plenary talk.
2007	<i>Potential role of omega-3 fatty acids in prevention of sudden death.</i> Beyond Cholesterol: Prevention and Treatment of Coronary Heart Disease with Omega-3 Fatty Acids, Columbia University, New York, NY.	Plenary talk.
2007	<i>Trans fatty acids and cardiovascular disease.</i> 16th Annual Lipid Disorders Training Center Programs, Johns Hopkins University, Baltimore, MD.	Plenary talk.
2007	<i>Balancing the health benefits and risks of fish consumption.</i> University of New Hampshire Conference on Seafood – Exploring Benefits and Risks, NH.	Plenary talk. .
2007	<i>Fish consumption and cardiovascular risk.</i> U.S. Environmental Protection Agency, National Forum on	Plenary talk.

	Contaminants in Fish, Portland, ME.	
2007	<i>Incidence of new-onset diabetes and impaired fasting glucose in patients with recent MI: Effects of clinical and lifestyle factors.</i> Network for Continuing Medical Education, Cardiometabolic E-Journal Club.	Plenary talk.
2008	<i>Trans fatty acids and cardiovascular health: Quantifying effects based on RCTs vs. observational studies.</i> Washington University School of Medicine, St. Louis, MO.	Clinical Research Lecture Series
2008	<i>Methylmercury, fish consumption, and cardiovascular health.</i> University of Missouri Research Reactor, Columbus, MO.	Research seminar.
2008	<i>Fish oil therapy in the management of dyslipidemia.</i> American College of Cardiology Annual Scientific Session, Chicago, IL.	Plenary talk.
2008	<i>Coronary heart disease mega-trials.</i> International Society for the Study of Fatty Acids and Lipids, 8 th International Meeting, Kansas City, MO	Session chair.
2008	<i>Trans fatty acids: Cardiovascular effects and molecular mechanisms.</i> International Society for the Study of Fatty Acids and Lipids, 8 th International Meeting, Kansas City, MO.	Plenary talk.
2008	<i>Fish and fish oil consumption and cardiovascular disease.</i> International Life Sciences Institute: Toward Establishing Dietary References for Omega-3 Fatty Acids, Washington D.C.	Plenary talk.
2008	<i>Dietary trans fats: effects on the heart, adiposity, and insulin resistance.</i> American Diabetes Association Scientific Sessions, San Francisco, CA.	Plenary talk.
2008	<i>Fish intake, contaminants, and human health.</i> Florida Dietetic Association Annual Symposium, Coral Gables, FL	Plenary talk
2008	<i>Trans fatty acids and cardiovascular disease: Clinical and policy implications.</i> 17th Annual Lipid Disorders Training Center Programs, Johns Hopkins University, Baltimore, MD.	Plenary talk.
2008	<i>Healthy you, Healthy Planet: Fish intake, contaminants, and human health - balancing risks and benefits.</i> American Dietetic Association Food and Nutrition Conference, Chicago, IL.	Plenary talk.
2008	<i>Mediterranean diet, lifestyle risk factors, and incidence of diabetes in patients with recent MI.</i> 15 th Anniversary Mediterranean Diet Conference, Boston.	Plenary talk.

2009	<i>Omega-3 fatty acids for cardiovascular disease prevention: What is the evidence?</i> Cardiovascular Disease Prevention 7 th Annual Comprehensive Symposium, Baptist Health South Florida, Coral Gables, FL.	Plenary talk
2009	<i>The trans fat story: Clinical and policy implications.</i> Cardiovascular Disease Prevention 7 th Annual Comprehensive Symposium, Baptist Health South Florida, Coral Gables, FL.	Plenary talk
2009	<i>Lifestyle risk factors and new-onset diabetes mellitus in older adults.</i> American Heart Association Cardiovascular Disease Epidemiology and Prevention/Nutrition, Physical Activity, and Metabolism Conference, Palm Harbor, FL.	Plenary talk.
2009	<i>Emerging global dietary habits and the burden of cardiovascular diseases.</i> Institute of Medicine Committee on Preventing the Global Epidemic of Cardiovascular Disease: Meeting the Challenges in Developing Countries, Washington D.C.	Plenary talk.
2009	<i>Saturated fat intake and CHD risk: What is the scientific evidence?</i> American Oil Chemists Society Annual Meeting, Orlando, FL.	Plenary talk.
2009	<i>Omega-3 fatty acids and coronary heart disease.</i> 35th Annual Summer Meeting of The Toxicology Forum, Aspen, CO.	Plenary talk.
2009	<i>Polyunsaturated fat intake and risk of heart failure.</i> Heart Failure Society of America 13 th Annual Scientific Meeting, Boston, MA	Plenary talk
2009	<i>Trans fatty acids: Effects on cardiometabolic health and implications for policy.</i> Nutrition & Aging Conference, Central Arkansas Veterans Healthcare System and Donald W. Reynolds Institute on Aging, University of Arkansas for Medical Sciences, Little Rock, AK.	Plenary talk.
2009	<i>Contribution of nutritional factors to type 2 diabetes.</i> International Chair on Cardiometabolic Risk 8 th Annual Meeting, Boston, MA.	Plenary talk.
2009	<i>Fish, omega-3's, and cardiovascular health.</i> Lillian Foundation-Smith Conference, Denver, CO.	Plenary talk.
2009	<i>Nutrition, obesity, and inflammation.</i> American Dietetic Association Food and Nutrition Conference, Denver, CO.	Plenary talk.
2009	<i>Lifestyle risk factors for CVD: State of the science.</i> American Heart Association Scientific Sessions, Orlando, FL.	Sunday morning program.

2009	<i>Anti-oxidant supplements: Lessons learned – the epidemiology.</i> American Heart Association Scientific Sessions, Orlando, FL.	Cardiovascular seminar.
2009	<i>Health implications of switching from partially hydrogenated oils to saturated fat.</i> Bunge Scientific Summit on Saturates and Health, White Plains, NY.	Plenary talk.
2010	<i>Fats, oils, and American menus: What does the science say about fats & oils in the American diet.</i> Worlds of Health Flavors, The Culinary Institute of America, Napa, CA.	Plenary talk.
2010	<i>Cardiovascular risks and benefits of fish consumption - Qualitative and quantitative risk-benefit assessment.</i> Northwest Fisheries Science Center Weekly Seminar Series, US National Oceanic and Atmospheric Association (NOAA), Seattle, WA.	Departmental seminar.
2010	<i>Highlights on new research of health effects of fats and oils.</i> American Oil Chemists Society Annual Meeting, Phoenix, AZ.	Plenary talk.
2010	<i>Evidence for the heart health benefits of a fish-rich diet.</i> U.S. Environmental Protection Agency, New England office, Boston, CA.	Plenary talk.
2010	<i>The optimal diet to prevent CVD: What is the role of saturated fat ?</i> National Lipid Association Clinical Lipid Update, Washington, DC.	Plenary talk.
2010	<i>The optimal diet to prevent CVD: What is the role of saturated fat ?</i> Health Effects of Dietary Fatty Acids Symposium, Wayne State University, Detroit, MI.	Plenary talk.
2010	<i>Coronary heart disease: Effects of added sugars and refined carbohydrates.</i> Bunge Scientific Summit on Added Sugars, White Plains, NY.	Plenary talk.
2010	<i>The great fat debate: Is saturated fat a risk factor for heart disease?</i> American Dietetic Association Food and Nutrition Conference, Boston, MA	Plenary talk.
2010	<i>Diet and health: A time for food.</i> Mediterranean Diet and Health, Rollins School of Public Health, Emory University, Atlanta, GA.	Plenary talk.
2010	<i>Omega-3 fatty acids and post-operative atrial fibrillation.</i> Cardiothoracic Surgery Division, Washington University St. Louis, MO.	Division meeting.
2010	<i>Diet and health: A time for food.</i>	Plenary talk.

	Mediterranean Diet: an Healthy Italian Style, Italian Consulate of New York, New York, NY.	
2011	<i>Four legs? Two legs? No legs? What's the best protein source and why?</i> Worlds of Health Flavors, Napa, CA.	Plenary talk.
2011	<i>Current intakes of dietary omega-3 fatty acids and impact on health.</i> American Society for Nutrition Scientific Sessions, Washington, DC.	Plenary talk.
2011	<i>Dietary fats, carbohydrates, and cardiometabolic health.</i> Food Technology, Innovation, and Safety Summit, Chicago, IL.	Plenary talk
2011	<i>Trans fatty acids, cardiometabolic health, and public policy.</i> Division for Heart Disease and Stroke Prevention, Centers for Disease Control and Prevention, Atlanta, GA.	Division seminar.
2011	<i>Nutrition and global burden of chronic diseases.</i> Department of Global Health, University of Washington School of Public Health, Seattle, WA.	Department seminar.
2011	<i>Diet and cardiometabolic risk – News insights and priorities.</i> Division of Cardiology, University of Washington School of Medicine, Seattle, WA.	Teaching conference.
2011	<i>Diet for a healthy heart and global cardiovascular disease prevention.</i> The World Bank, Washington, DC.	Plenary talk. Support: Sister to Sister Foundation.
2011	<i>Dietary quality, lifestyle, and the prevention of long-term weight gain.</i> Stanford Prevention Research Center, Stanford University, Palo Alto, CA.	Department seminar.
2011	<i>Dietary fats and cardiovascular diseases.</i> American Heart Association Scientific Sessions, Orlando, FL.	Cardiovascular seminar.
2011	<i>Starting a research career in the field of nutrition.</i> American Heart Association Scientific Sessions, Orlando, FL.	Early Career seminar.
2011	<i>Polypill versus polymeal policies for CVD prevention in low and middle income countries.</i> American Heart Association Scientific Sessions, Orlando, FL.	Plenary Debate.
2011	<i>Panelist, Living Well to 100. Moderator, The Way to Live. Presenter, Avoiding Strokes.</i> Renaissance Weekend, Charleston, SC.	Panelist, Moderator, Presenter.
2012	<i>The global burden of chronic diseases attributable to dietary habits.</i> Institute for Health Metrics and Evaluation, University of	Institute seminar.

Washington, Seattle, WA.

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| 2012 | <i>New advances in our understanding of the cardioprotective diet.</i>
4th Annual Advances in Heart Disease Prevention and Rehabilitation, Beaumont Health System, Auburn Hill, MI. | Plenary talk. |
| 2012 | <i>Improving cardiovascular health with omega-3's: the scientific evidence.</i>
Global Organization for EPA and DHA Omega 3 Fatty Acids (GOED) Exchange 2012, Boston, MA. | Plenary talk. |
| 2012 | <i>Dairy consumption and risk of diabetes.</i>
Dairy Research Institute webinar, USA. | National webinar. |
| 2012 | <i>Population approaches for improving diet and physical activity: What is the evidence?</i>
American Heart Association Scientific Sessions, Industry Nutrition Advisory Panel, Los Angeles, CA. | Plenary talk. |
| 2012 | <i>Long-chain fatty acids: the good, the bad, and the ugly.</i>
American Heart Association Scientific Sessions, Los Angeles, CA. | Cardiovascular Seminar. |
| 2012 | <i>Chocolate and heart health: Is it as good as we hope?</i>
American Heart Association Scientific Sessions, Los Angeles, CA. | Cardiovascular Seminar. |
| 2013 | <i>Can grains provide heart health and weight maintenance benefits?</i>
Bunge Scientific Summit on Grains and Health, White Plains, NY. | Plenary talk. |
| 2013 | <i>The global, regional, and national impact of sodium consumption on cardiovascular mortality.</i>
Research Colloquium on Cardiovascular Research, Colorado State University, Denver, CO. | Plenary talk. |
| 2013 | <i>The global impact of dietary habits on cardiovascular diseases: Comparative burdens and opportunities for prevention.</i>
Cardiovascular Research Institute, Oregon Health Sciences University, Portland, OR. | Grand rounds. |
| 2013 | <i>Emerging science in saturated and polyunsaturated fat.</i>
Unilever Scientific Advisory Meeting, Englewood Cliffs, NJ. | Plenary talk |
| 2013 | <i>Dietary fats, foods, and type 2 diabetes: What effects are independent of weight gain?</i>
Scientific Sessions, American Society for Nutrition, Boston, MA. | Plenary talk. |
| 2013 | <i>Prospective cohort studies and randomized controlled trials on omega-3 fatty acids and cardiovascular diseases.</i> | Plenary talk. |

	Linus Pauling Institute Seventh Biennial Conference on Diet and Optimum Health, Oregon State University, Corvallis, OR.	
2013	Chair, <i>The Agriculture and Health Nexus</i> . Chicago Council on Global Affairs: Global Food Security Symposium, Washington DC.	Plenary talk.
2013	<i>Drawing heart failure management lessons from population science research</i> . NHLBI and NIH Office of Dietary Supplements Working Group: Designing Clinical Studies to Evaluate the Role of Nutrition and Diet in Heart Failure Management, Bethesda, MD	Plenary talk.
2013	<i>The global, regional, and national impact of sodium consumption on cardiovascular mortality</i> . Public Health Grand Rounds, University of Rochester Medical Center, Rochester, NY	Grand rounds.
2013	Breakout Group Facilitator American Heart Association Sodium Conference, Arlington, VA.	Breakout group session leader.
2013	<i>Overview of nutritional policies to reduce metabolic risk</i> . American Diabetes Association Scientific Sessions, Chicago, IL.	Plenary talk.
2013	<i>Evidence for population-based dietary policies, including obesity prevention</i> . Lancet Commission for Investing in Health / Disease Control Priorities Project / Harvard Global Health Institute, Cambridge, MA.	Plenary talk.
2013	<i>Taxes and subsidies on foods and beverages</i> . Lancet Commission for Investing in Health / Disease Control Priorities Project / Harvard Global Health Institute, Cambridge, MA.	Plenary talk.
2013	<i>Saturated fat and heart disease: A review of the evidence</i> . and <i>Omega-3 fatty acids and cardiovascular diseases</i> . Cargill Live Webinar – Impact of Saturates and Omega-3s on Heart Health.	Keynote speaker.
2013	<i>Omega-3's and CVD: Evidence from observational studies and clinical trials</i> . Amarin Scientific Summit Meeting, Houston, TX.	Plenary talk.
2013	<i>Subject matter expert, micronutrient supplements</i> . Micronutrient Supplement Summit, Institute of Human Nutrition, Columbia University, New York, NY.	Invited workshop subject discussant.
2013	<i>Fish and seafood: Scientific advances to support food-based</i>	Cardiovascular

	<i>guidelines.</i> American Heart Association Scientific Sessions, Dallas, TX.	Seminar.
2013	<i>Omega-3's and cardiovascular randomized controlled trials: Progress and short-comings.</i> American Heart Association Scientific Sessions, Dallas, TX.	Cardiovascular Seminar.
2013	<i>Dietary and pharmacological interventions for prevention of atrial fibrillation.</i> American Heart Association Scientific Sessions, Dallas, TX.	Cardiovascular Seminar.
2013	<i>Balancing the discussion on dietary fats, protein and iron.</i> Webinar, Ontario Pork, Canada.	Plenary talk.
2013	<i>Dietary fat and heart health.</i> 11th Annual Society for Heart and Vascular Metabolism conference, Cambridge, MD.	Keynote speaker.
2014	<i>Chocolate and heart health: Too good to be true ?</i> 12th Annual CVD Prevention International Symposium 2014, Baptist Health South Florida, Miami Beach, FL.	Plenary talk.
2014	<i>The global burden of cardiovascular mortality due to salt and sugar consumption.</i> 12th Annual CVD Prevention International Symposium 2014, Baptist Health South Florida, Miami Beach, FL.	Plenary talk.
2014	<i>Fish consumption: mercury exposure? farm raised vs. wild? warm water vs. cold? What's a consumer to do?</i> 12th Annual CVD Prevention International Symposium 2014, Baptist Health South Florida, Miami Beach, FL.	Plenary talk.
2014	<i>Diet and cardiometabolic risk: How to make sense of the evidence.</i> Integrative Vascular Biology and McAllister Heart Institute Annual Research Symposium, University of North Carolina, Chapel Hill, NC.	Keynote speaker.
2014	<i>The differences between epidemiologic and evidence-based metabolic studies.</i> The American Society of Bariatric Physicians Spring 2014 Conference, Philadelphia, PA.	Plenary talk.
2014	<i>Fat quality vs. fat quantity--What matters more?</i> American Diabetes Association's 2014 Scientific Sessions, San Francisco, CA	Plenary talk.
2014	<i>Heart healthy eating and optimizing cardiovascular nutrition.</i> Cardiology Symposium, Asheville Cardiology Associates, Asheville, NC.	Keynote speaker.

International Invited Teaching and Presentations:

<i>Year(s)</i>	<i>Title of presentation</i> <i>Department/Institution</i>	<i>Type of presentation</i> <i>Sponsor/compensation*</i>
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**For presentations supported by outside entities, the sponsor is identified.*

2005	<i>Fish intake, atrial fibrillation, and insights into potential mechanisms of effect.</i> Division of Human Nutrition, Wageningen University, The Netherlands.	Grand rounds.
2005	<i>Protagonists of global cardiovascular risk – Role of n-3 PUFAs.</i> Mediterranean Cardiology Association Meeting, Taormina, Italy.	Session chair.
2005	<i>Estimated effects of replacing partially hydrogenated fats with unhydrogenated fats on cardiovascular health in Iran.</i> Iranian Society of Atherosclerosis Annual Meeting, Tehran, Iran.	Plenary talk.
2005	<i>Trans fatty acids and systemic inflammation.</i> First International Symposium on Trans Fatty Acids and Health, Copenhagen, Denmark.	Plenary talk.
2005	<i>Fish and cardiovascular health – current evidence, uncertainties, and unanswered questions.</i> DHA/Omega-3 for Health Symposium, University of Guelph, Toronto, Ontario, Canada.	Plenary talk.
2006	<i>Fish, n-3 fatty acids, and cardiovascular hemodynamics.</i> International Forum on n-3 PUFA, Rome, Italy.	Plenary talk.
2006	<i>Fish, contaminants, and cardiovascular health: Clearing up the confusion about risks and benefits.</i> GISSI Investigator Group, Consorzio Mario Negri Sud, Santa Maria Imbaro, Italy.	Research seminar.
2006	<i>Fish, contaminants, and cardiovascular health – the scientific evidence.</i> Department of Medicine, University of Chieti, Chieti, Italy.	Grand rounds.
2006	<i>Fish, contaminants, and cardiovascular health – the scientific evidence.</i> Department of Cardiovascular Research, Mario Negri Institute, Milan, Italy.	Grand rounds.
2007	<i>Consumption of trans fatty acids and human health.</i> Japan Oil Chemists' Society - International Life Sciences Institute Joint Symposium, Tokyo, Japan.	Plenary talk.
2007	<i>Health-related topics of trans fatty acids: Epidemiologic perspective.</i> World Health Organization Scientific Update on Trans Fatty Acids, Geneva, Switzerland.	Plenary talk.
2008	<i>Fish and fish oil containing DHA/EPA for protection from heart disease.</i>	Plenary talk.

	DHA/Omega-3 for Health Symposium, University of Guelph, Toronto, Ontario, Canada.	
2009	<i>Lifestyle and coronary events.</i> 1 st International Summit on Ischemic Heart Disease, Pisa, Italy.	Plenary talk.
2009	<i>The combined impact of diet and lifestyle on cardiovascular risk.</i> 16 th Lilly Foundation Scientific Symposium: Nutrition, Lipids, and Atherosclerosis, Madrid, Spain.	Plenary talk.
2009	<i>Preventable causes of death in the US: Comparative risk assessment, and impact of low omega-3 intake.</i> International Fishmeal and Fish Oil Organization, Vienna, Austria.	Plenary talk.
2009	<i>Global dietary habits and cardiovascular diseases.</i> Global Alliance for Chronic Disease (US National Institutes of Health, UK Medical Research Council, Canadian Institutes of Health Research, Australian National Health Medical Research Council, Chinese Academy of Medical Sciences, Indian Council of Medical Research), Delhi, India.	Plenary talk.
2009	<i>Criteria for determining guidelines and requirements for dietary lipids.</i> Le Quotidien du Medecin - Symposium on Lipids; Paris, France	Plenary talk.
2010	<i>Health benefits of fish consumption.</i> Joint FAO/WHO Expert Consultation on the Risks and Benefits of Fish Consumption, Rome, Italy.	Plenary talk.
2010	<i>Essential fats – how much do we really need?</i> 9th Annual Unilever Nutrition Symposium, Vlaardingen, The Netherlands.	Plenary talk.
2011	<i>Dietary fats, carbohydrates, and cardiometabolic health.</i> Institute for Clinical Effectiveness and Health Policy, Buenos Aires, Argentina.	Department Seminar.
2011	<i>Improving diet quality: From carbohydrate quality to dietary patterns.</i> 2nd International Congress on Abdominal Obesity, Buenos Aires, Argentina.	Plenary talk.
2011	<i>Seafood safety and dietary guidelines.</i> National Institute of Nutrition and Seafood Research, Bergen, Norway.	Plenary talk. Support: Norwegian Ministry of Fisheries.
2011	<i>Dietary fats, carbohydrates, and cardiometabolic risk: New insights.</i> 2 nd International Summit on Ischemic Heart Disease, Pisa, Italy.	Plenary talk.
2011	<i>Epidemiologic concepts and multivariable modeling: A seminar series.</i> Mario Negri Institute South, Santa Maria Imbaro, Italy.	Department seminar.

2011	<i>Fatty acids and cardiovascular health.</i> Mario Negri Institute, Milan, Italy.	Department seminar
2011	<i>Saturated fatty acids and cardiovascular health.</i> Eurofed Lipid Congress, Rotterdam, The Netherlands.	Plenary talk. Support: Loders Croklaan.
2011	<i>Trans-palmitoleic acid, metabolic risk factors, and new-onset diabetes.</i> Eurofed Lipid Congress, Rotterdam, The Netherlands	Plenary talk.
2011	<i>Omega-6 fatty acids and cardiovascular disease.</i> Italian Society for the Study of Atherosclerosis, Rome, Italy.	Plenary talk. Support: Nutrition Foundation of Italy.
2011	<i>Health risks and benefits of fish consumption.</i> Webinar, Norwegian Seafood Export Council, Norway.	Plenary talk.
2012	<i>Functional foods and cardiometabolic risk reduction.</i> Scientific Intersession, World Congress of Cardiology, Dubai, United Arab Emirates.	Plenary talk. Support: Quaker Oats.
2013	<i>Perspectives on salt and fat reduction strategies from the United States.</i> Consultation on Developing Strategic Directions for Salt and Fat Reduction, World Health Organization, Cairo, Egypt.	Plenary talk.
2013	<i>Diet and cardiometabolic health: Is saturated fat the villain?</i> Advances in Fats and Nutrition, Canadian Nutrition Society and the University of Guelph, Toronto, Canada.	Plenary talk.
2013	<i>Omega-3's and cardiovascular health: How strong is the evidence ?</i> American Oil Chemists Society Annual Meeting, Montreal, Canada.	Plenary debate
2013	<i>Saturated fat and heart disease: A review of the evidence.</i>	Plenary talk.
2013	<i>Dietary quality and obesity: Are all calories the same?</i> Canadian Obesity Network Summit, Vancouver BC, Canada.	Plenary talk.
2013	<i>Global Impact of Dietary Sodium on CVD mortality</i> Spanish National Cardiovascular Research Center (CNIC) Seminar Series, Madrid, Spain.	Research seminar.
2013	<i>Monounsaturated fatty acids and health: Scientific evidence.</i> IUNS 20th International Congress of Nutrition, Granada, Spain.	Plenary talk.
2013	<i>Global burden of cardiometabolic diseases due to sweetened beverages.</i> XXIV Interamerican Congress of Cardiology, Buenos Aires, Argentina.	Plenary talk. Support: Institute for Clinical Effectiveness

and Health Policy.

- 2014 *EPA/DHA and risk of cardiovascular diseases and stroke.* Plenary talk.
DHA/Omega-3 for Health Symposium, University of Guelph, Toronto, Ontario, Canada.
- 2014 *Macronutrient intakes in low, middle, and high income countries.* Plenary talk.
Consensus Conference on Nutrition: A Joint Conference of the World Heart Federation and Canadian Academy of Health Sciences, Hamilton, Ontario

REPORT OF CLINICAL ACTIVITIES AND INNOVATIONS

Licensure and Certification:

- 1996 Physician and Surgeon, State of California (chose not to renew)
- 1996 - Drug Enforcement Administration Certification
- 1998 Diplomate, American Board of Internal Medicine (chose not to renew)
- 1998 Physician and Surgeon, State of Washington (chose not to renew)
- 2001 - Diplomate, Cardiovascular Disease Subspecialty
- 2003 - Physician’s License, State of Massachusetts
- 2004 - Massachusetts Controlled Substances License

Practice Activities:

<i>Type of activity</i>	<i>Setting of practice</i>	<i>Name and location of practice</i>	<i>Level of activity</i>
Cardiology B Team	Inpatient ward	Cardiovascular Medicine, BWH	Two half-month blocks per year
ECG Reading	Outpatient	Cardiovascular Medicine, BWH	Two one-week blocks per year
Fellows Clinic	Outpatient	Cardiovascular Medicine, BWH	Several half-day blocks per year

Clinical Innovations:

My main research focuses on lifestyle behaviors and cardiometabolic risk factors and diseases, including the key dietary targets and policy strategies to address lifestyle and reduce risk. I also have performed work, in collaboration with Dr. Wayne Levy at the University of Washington, to develop the Seattle Heart Failure Model (SHFM), a validated model that predicts survival in heart failure patients, including prediction of 5-year mortality and total life expectancy, and also determination of the mortality effects of adding specific drugs or devices to any patient’s regimen. The SHFM has now been validated in several diverse populations. Both PC and handheld versions have been released for clinical use, free-of-charge for clinicians (*see* <http://depts.washington.edu/shfm>); and the SHFM is part of Epocrates tool kit: www.epocrates.com/products/medtools/cardiologysentials.html

REPORT OF EDUCATION TO PATIENTS AND SERVICE TO THE COMMUNITY

Activities:

<i>Year(s)</i>	<i>Role</i>	<i>Organization or institution</i>
2006	Speaker, Public Hearing on the Initiative to Ban Trans Fats in New York	New York City Department of Health, New York, NY
2006	Invited Speaker, National Academy of	U.S. National Oceanic and

	Sciences/Institute of Medicine Press Conference, Washington Press Club, D.C.	Atmospheric Administration
2007	Meeting with congressman and senator staff for advocacy of health care issues, AHA Lobby Day	U.S. Congress and Senate, Washington D.C.
2007-2009	Committee Member, Task Force on Trans Fats in the Americas	Pan American Health Organization / World Health Organization
2008	Speaker, Public Hearing on the Initiative to Regulate Trans Fats in Massachusetts	Commonwealth of Massachusetts Senate Subcommittee on Health, Boston, MA
2008	Invited Speaker, NOAA Panel, Boston Seafood Show	U.S. National Oceanic and Atmospheric Administration
2008-2010	Committee Member, Expert Consultation on Fats and Fatty Acids in Human Nutrition	Food and Agriculture Organization of the United Nations / World Health Organization
2008	Invited Speaker, Workshop on Risks of PCB Exposure and Benefits Associated with Consumption of Marine Fish	Massachusetts Department of Public Health, Boston, MA
2009	Principal Organizer, Seafood, Environment, and Health Meeting	Harvard School of Public Health, Aramark, Monterey Bay Aquarium, Environmental Defense Fund
2010-2012	Committee Member, Expert Consultation on Risks and Benefits of Fish Consumption	Food and Agriculture Organization of the United Nations / World Health Organization

Educational Material for Patients and the Lay Community:

<i>Year</i>	<i>Title</i>	<i>Contribution</i>	<i>Site of publication/distribution</i>
2006	Fish Intake, Contaminants, and Human Health: Evaluating the Risks and the Benefits. Part 1 – Health Benefits	Author	BWH Cardiology Rounds, Volume 10, Issue 8
2006	Fish Intake, Contaminants, and Human Health: Evaluating the Risks and the Benefits. Part 2 – Health Risks and Optimal Intakes	Author	BWH Cardiology Rounds, Volume 10, Issue 9
2008	Trans Fat	Co-author	Internet webpage, American Heart Association
2008	Fats and Cholesterol:	Co-author	Internet webpage, HSPH Nutrition Source

	Out with the Bad, In with the Good		
2010	Vitamins and Minerals: What You Need to Know	Medical Editor	Harvard Medical School Special Health Report
2011	Healthy Food for the Heart	Medical Editor	Harvard Medical School Special Health Report
2012	The Truth about Vitamins and Minerals: Choosing the Nutrients You Need to Stay Healthy	Medical Editor	Harvard Medical School Special Health Report
2007-present	Fish Oil and Marine Omega-3 Fatty Acids	Author	Regularly updated online chapter in UpToDate (viewed 45,796 times by subscribers in 2013).
2012	National Geographic Seafood Decision Guide	Advisor	National Geographic, available at http://ocean.nationalgeographic.com/ocean/take-action/seafood-decision-guide/

REPORT OF SCHOLARSHIP

Peer-Reviewed Publications in print or other media

Research investigations

1. Suchecki D, **Mozaffarian D**, Gross G, Rosenfeld P, Levine S. Effects of maternal deprivation on the ACTH stress response in the infant rat. *Neuroendocrinology* 1993;57:204-212.
2. Lemaitre RN, King IB, **Mozaffarian D**, Kuller LH, Tracy RP, Siscovick DS. n-3 Polyunsaturated fatty acids, fatal ischemic heart disease, and nonfatal myocardial infarction in older adults. *Am J Clin Nutr* 2003;77:319-325.
3. **Mozaffarian D**, Lemaitre RN, Kuller LH, Burke GL, Tracy RP, Siscovick DS. Cardiac benefits of fish consumption may depend on the type of fish meal consumed: the Cardiovascular Health Study. *Circulation* 2003;107:1372-1377.
4. **Mozaffarian D**, Kumanyika SK, Lemaitre RN, Olson JL, Burke GL, Siscovick DS. Cereal, fruit, and vegetable fiber intake and the risk of cardiovascular disease in elderly individuals: the Cardiovascular Health Study. *JAMA* 2003;289:1659-1666.
5. **Mozaffarian D**, Nye RG, Levy WC. Anemia predicts mortality in severe heart failure: the Prospective Randomized Amlodipine Survival Evaluation. *J Am Coll Cardiol* 2003;41:1933-1939.
6. **Mozaffarian D**, Bryson CL, Spertus J, McDonnell MB, Fihn SD. Age, race, education, and comorbidities do not influence relationships of anginal symptoms with mortality: the Ambulatory Care Quality Improvement Project. *Am Heart J*. 2003;146:1015-1022.
7. Erkkilä AT, Lichtenstein AH, **Mozaffarian D**, Herrington DM. Fish intake is associated with a reduced progression of coronary artery atherosclerosis in postmenopausal women with coronary artery disease. *Am J Clin Nutr*. 2004;80:626-632.
8. **Mozaffarian D**, Pischon T, Hankinson SE, Rifai N, Joshipura K, Willett WC, Rimm EB. Dietary intake of trans-fatty acids and systemic inflammation in women. *Am J Clin Nutr*. 2004;79:606-612.

9. **Mozaffarian D**, Nye RG, Levy WC. Statin therapy is associated with lower mortality in severe heart failure. *Am J Cardiol.* 2004;93:1124-1129.
10. **Mozaffarian D**, Psaty BM, Rimm EB, Lemaitre RN, Burke GL, Lyles MF, Lefkowitz D, Siscovick DS. Fish intake and risk of incident atrial fibrillation. *Circulation.* 2004;110:368-373.
11. **Mozaffarian D**, Rimm EB, Herrington DM. Dietary fats, carbohydrate, and progression of coronary atherosclerosis among postmenopausal women. *Am J Clin Nutr.* 2004;80:1175-1184.
12. **Mozaffarian D**, Rimm EB, King IB, Lawler RL, McDonald GB, Levy WC. Trans fatty acids and systemic inflammation in heart failure. *Am J Clin Nutr.* 2004;80:1521-1525.
13. Ahmadi AJ, Saari JC, **Mozaffarian D**, Garwin GG, Tarbert KJ, Orcutt JC, Hargiss JL, Sires BS. Decreased carotenoid content in preaponeurotic orbital fat of patients with involutional ptosis. *Ophthal Plast Reconstr Surg.* 2005;21:46-51.
14. Huehnergath K, **Mozaffarian D**, Sullivan MD, Crane BA, Wilkinson C, Lawler RL, McDonald GB, Fishbein DP, Levy WC. Usefulness of relative lymphocyte count as an independent predictor of death/urgent transplant in heart failure. *Am J Cardiol.* 2005;95:1492-1495.
15. Erkkilä AT, Herrington DM, **Mozaffarian D**, Lichtenstein AH. Cereal fiber and whole-grain intake are associated with reduced progression of coronary-artery atherosclerosis in postmenopausal women with coronary artery disease. *Am Heart J.* 2005;150:94-101.
16. **Mozaffarian D**, Ascherio A, Hu FB, Stampfer MJ, Willett WC, Siscovick DS, Rimm EB. Interplay between intermediate-chain n-3, long-chain n-3, and n-6 polyunsaturated fatty acids and risk of coronary heart disease in men. *Circulation.* 2005;111:166-173.
17. **Mozaffarian D**, Longstreth WT, Lemaitre RN, Manolio T, Kuller LH, Burke GL, Siscovick DS. Fish consumption and stroke risk in elderly individuals: the Cardiovascular Health Study. *Arch Intern Med.* 2005;165:200-206.
18. **Mozaffarian D**, Bryson CL, Lemaitre CL, Burke GL, Siscovick DS. Fish intake and risk of incident heart failure. *J Am Coll Cardiol.* 2005;45:2015-2021.
19. **Mozaffarian D**, Geelen A, Brouwer IA, Geleijnse JM, Zock PL, Katan MB. The effect of fish oil on heart rate in humans: A meta-analysis of randomized controlled trials. *Circulation* 2005; 112:1945-1952.
20. **Mozaffarian D**, Minami E, Letterer RA, Lawler RL, McDonald GB, Levy WC. The effects of atorvastatin (10 mg) on systemic inflammation in heart failure. *Am J Cardiol.* 2005;96:1699-1704.
21. Ioannou GN, Weiss NS, Boyko EJ, **Mozaffarian D**, Lee SP. Elevated serum alanine aminotransferase activity and calculated risk of coronary heart disease in the United States. *Hepatology.* 2006;43:1145-1151.
22. Levy WC, **Mozaffarian D**, Linker DT, Sutradhar SC, Anker SD, Cropp AB, Anand I, Maggioni AP, Burton P, Sullivan MD, Pitt B, Poole-Wilson PA, Mann DL. The Seattle Heart Failure Model: Prediction of survival in heart failure. *Circulation.* 2006;113:1424-1433.
23. Lemaitre RN, King IB, **Mozaffarian D**, Sotoodehnia N, Rea TD, Kuller LH, Tracy RP, Siscovick DS. Plasma phospholipid trans fatty acids, fatal ischemic heart disease, and sudden cardiac death in older adults. The Cardiovascular Health Study. *Circulation.* 2006;114:209-215.
24. **Mozaffarian D**, Gottdiener JS, Siscovick DS. Intake of tuna or other broiled or baked fish vs. fried fish and cardiac structure, function, and hemodynamics. *Am J Cardiol.* 2006;97:216-222.
25. **Mozaffarian D**, Katan MB, Ascherio A, Stampfer MJ, Willett WC. Trans fatty acids and cardiovascular disease. *New Engl J Med.* 2006;354:45-57.
26. **Mozaffarian D**, Prineas RJ, Stein PK, Siscovick DS. Dietary fish and n-3 fatty acid intake and cardiac electrocardiographic parameters in humans. *J Am Coll Cardiol.* 2006;48:478-484.

27. **Mozaffarian D**, Rimm EB. Fish intake, contaminants, and human health: Evaluating the risks and the benefits. *JAMA*. 2006;296:1885-1899.
28. May HT, Horne BD, Levy WC, Kfoury AG, Rasmusson KD, Linker DT, **Mozaffarian D**, Anderson JL, Renlund DG. Validation of the Seattle Heart Failure Model in a community-based heart failure population and enhancement by adding B-type natriuretic peptide. *Am J Cardiol*. 2007;100:697-700.
29. Moorman AJ, **Mozaffarian D**, Wilkinson CW, Lawler RL, McDonald GB, Crane BA, Spertus JA, Russo JE, Stempien-Otero AS, Sullivan MD, Levy WC. In patients with heart failure elevated soluble TNF receptor-1 is associated with higher risk of depression. *J Cardiac Failure*. 2007;13:738-743.
30. **Mozaffarian D**, Anker SD, Anand I, Linker DT, Sullivan MD, Cleland JGF, Carson PE, Maggioni AP, Mann DL, Pitt B, Poole-Wilson PA, Levy WC. Prediction of mode of death in heart failure: The Seattle Heart Failure Model. *Circulation*. 2007;116:392-398.
31. **Mozaffarian D**, Abdollahi M, Campos H, HoushiarRad A, Willett WC. Consumption of trans fats and estimated effects on coronary heart disease in Iran. *Eur J Clin Nutr*. 2007;61:1004-1010.
32. **Mozaffarian D**, Marfisi R, Levantesi G, Silletta MG, Tavazzi L, Tognoni G, Valagussa F, Marchioli R. Incidence of new-onset diabetes and impaired fasting glucose in patients with recent myocardial infarction and the effect of clinical and lifestyle risk factors. *Lancet*. 2007;370:667-675.
33. **Mozaffarian D**, Stein PK, Prineas RJ, Siscovick DS. Dietary fish and omega-3 fatty acid consumption and heart rate variability in U.S. adults. *Circulation* 2008;117:1130-1137.
34. **Mozaffarian D**, Kamineni A, Prineas RJ, Siscovick DS. The metabolic syndrome and mortality in older adults: the Cardiovascular Health Study. *Arch Intern Med*. 2008;168:969-978.
35. **Mozaffarian D**, Furberg CD, Psaty BM, Siscovick D. Physical activity and incidence of atrial fibrillation in older adults: the Cardiovascular Health Study. *Circulation*. 2008;118:800-807.
36. Sun Q, Ma J, Campos H, Rexrode KM, Albert CM, **Mozaffarian D**, Hu FB. Blood concentrations of individual long-chain n-3 fatty acids and risk of nonfatal myocardial infarction. *Am J Clin Nutr*. 2008;88:216-223.
37. Virtanen JK, Siscovick, DS, Longstreth WT, Kuller LH, **Mozaffarian D**. Fish consumption and risk of subclinical brain abnormalities on MRI in older adults. *Neurology*. 2008;71:439-446.
38. Virtanen JK, **Mozaffarian D**, Chiuve SE, Rimm EB. Fish consumption and risk of major chronic disease in men. *Am J Clin Nutr*. 2008;88:1618-1625.
39. Ratnayake WMN, L'Abbe MR, **Mozaffarian D**. Nationwide product reformulations to reduce trans fatty acids in Canada: When trans fat goes out, what goes in? *Eur J Clin Nutr*. 2009;63:808-811. Epub 2008 Jul 2.
40. Lloyd-Jones D, Adams R, Carnethon M, De Simone G, Ferguson TB, Flegal K, Ford E, Furie K, Go A, Greenlund K, Haase N, Hailpern S, Ho M, Howard V, Kissela B, Kittner S, Lackland D, Lisabeth L, Marelli A, McDermott M, Meigs J, **Mozaffarian D**, Nichol G, O'Donnell C, Roger V, Rosamond W, Sacco R, Sorlie P, Stafford R, Steinberger J, Thom T, Wasserthiel-Smoller S, Wong N, Wylie-Rosett J, Hong Y. Heart Disease and Stroke Statistics--2009 Update. A report from the AHA Statistics Committee and Stroke Statistics Subcommittee. *Circulation*. 2009;119:480-6, 119:e21-181.
41. Asselbergs FW, **Mozaffarian D**, Katz R, Kestenbaum B, Fried LF, Gottdiener JS, Shlipak MG, Siscovick DS. Association of renal function with cardiac calcifications in older adults: the Cardiovascular Health Study. *Nephrol Dial Transplant*. 2009;24:834-840.
42. Levy WC, **Mozaffarian D**, Linker DT, Kenyon KW, Cleland JG, Komajda M, Remme WJ, Torp-Pedersen C, Metra M, Poole-Wilson PA; on behalf of the COMET Investigators. Years-

- needed-to-treat to add 1 year of life: a new metric to estimate treatment effects in randomized trials. *Eur J Heart Fail*. 2009;11:256-263.
43. Levy WC, **Mozaffarian D**, Linker DT, Farrar DJ, Miller LW; REMATCH Investigators. Can the Seattle heart failure model be used to risk-stratify heart failure patients for potential left ventricular assist device therapy? *J Heart Lung Transplant*. 2009;28:231-236.
 44. Levy WC, Lee KL, Hellkamp AS, Poole JE, **Mozaffarian D**, Linker DT, Maggioni AP, Anand I, Poole-Wilson PA, Fishbein DP, Johnson G, Anderson J, Mark DB, Bardy GH. Maximizing survival benefit with primary prevention implantable cardioverter-defibrillator therapy in a heart failure population. *Circulation*. 2009;120:835-842. Epub 2009 Aug 24.
 45. **Mozaffarian D**, Kamineni A, Carnethon M, Djoussé L, Mukamal KJ, Siscovick DS. Lifestyle risk factors and new-onset diabetes mellitus in older adults: the Cardiovascular Health Study. *Arch Intern Med*. 2009;169:798-807.
 46. **Mozaffarian D**, Clarke R. Quantitative effects on cardiovascular risk factors and coronary heart disease risk of replacing partially hydrogenated vegetable oils with other fats/oils. *Eur J Clin Nutr*. 2009;63:S22-33.
 47. Danaei G, Ding E, **Mozaffarian D**, Taylor B, Rehm J, Murray CJL, Ezzati M. Mortality effects of lifestyle, dietary, and metabolic risk factors in the United States: comparative risk assessment. *PloS Medicine*. 2009;6:e1000058. Epub 2009 Apr 28.
 48. Chandra D, Parisini E, **Mozaffarian D**. Travel and risk for venous thromboembolism. *Ann Intern Med*. 2009;151:180-190. Epub 2009 Jul 6.
 49. Kaushik M, **Mozaffarian D**, Spiegelman D, Manson JE, Willett WC, Hu FB. Long-chain omega-3 fatty acids, fish intake, and the risk of type 2 diabetes mellitus. *Am J Clin Nutr*. 2009;90:613-620. Epub 2009 Jul 22.
 50. Robinson-Cohen C, Katz R, **Mozaffarian D**, Dalrymple LS, de Boer I, Sarnak M, Shlipak M, Siscovick D, Kestenbaum B. Physical activity and rapid decline in kidney function among older adults. *Arch Intern Med*. 2009;169:2116-2123.
 51. Lloyd-Jones D, Adams RJ, Brown TM, Carnethon M, Dai S, De Simone G, Ferguson TB, Ford E, Furie K, Gillespie C, Go A, Greenlund K, Haase N, Hailpern S, Ho PM, Howard V, Kissela B, Kittner S, Lackland D, Lisabeth L, Marelli A, McDermott MM, Meigs J, **Mozaffarian D**, Mussolino M, Nichol G, Roger V, Rosamond W, Sacco R, Sorlie P, Stafford R, Thom T, Wasserthiel-Smoller S, Wong ND, Wylie-Rosett J; on behalf of the American Heart Association Statistics Committee and Stroke Statistics Subcommittee. Executive Summary: Heart Disease and Stroke Statistics--2010 Update. A Report From the American Heart Association. *Circulation*. 2010;121:948-954.
 52. Lloyd-Jones D, Adams RJ, Brown TM, Carnethon M, Dai S, De Simone G, Ferguson TB, Ford E, Furie K, Gillespie C, Go A, Greenlund K, Haase N, Hailpern S, Ho PM, Howard V, Kissela B, Kittner S, Lackland D, Lisabeth L, Marelli A, McDermott MM, Meigs J, **Mozaffarian D**, Mussolino M, Nichol G, Roger V, Rosamond W, Sacco R, Sorlie P, Stafford R, Thom T, Wasserthiel-Smoller S, Wong ND, Wylie-Rosett J; on behalf of the American Heart Association Statistics Committee and Stroke Statistics Subcommittee. Heart Disease and Stroke Statistics--2010 Update. A Report From the American Heart Association. *Circulation*. 2009;121:e46-e215.
 53. Chiuve SE, Rimm EB, Manson JE, Whang W, **Mozaffarian D**, Stampfer MJ, Willett WC, Albert CM. Intake of total trans, trans-18:1, and trans-18:2 fatty acids and risk of sudden cardiac death in women. *Am Heart J*. 2009;158:761-767.
 54. Lemaitre RN, King IB, Sotoodehnia N, Knopp RH, **Mozaffarian D**, McKnight B, Rea TD, Rice K, Friedlander Y, Lumley TS, Raghunathan TE, Copass MK, Siscovick DS. Endogenous red blood cell membrane fatty acids and sudden cardiac arrest. *Metabolism*. 2010;59:1029-1034.

55. Virtanen JK, **Mozaffarian D**, Cauley JA, Mukamal KJ, Robbins J, Siscovick DS. Fish consumption, bone mineral density, and risk of hip fracture among older adults. *J Bone Mineral Res.* 2010;25:1972-9. Epub 2010 Jun 23.
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