

CURRICULUM VITAE
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Assistant Professor

BUSINESS ADDRESS: Department of Epidemiology
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EDUCATION AND TRAINING

Undergraduate

9/87-5/91 Bryn Mawr College Bachelor of Arts , 1991 Chemistry
Bryn Mawr, PA

Graduate

9/92-2/98 University of Pittsburgh Doctor of Philosophy, 1998 Epidemiology
Pittsburgh, PA Advisor: Ronald LaPorte

Post-Graduate

3/98-2/01 University of Pittsburgh Post-doctoral Fellowship CVD Epidemiology
Pittsburgh, PA NHLBI T-32 CVD Training Mentor: Lewis H. Kuller
Grant

APPOINTMENTS AND POSITIONS

Academic

1992-1994	Graduate Student Researcher	Department of Epidemiology Graduate School of Public Health University of Pittsburgh Pittsburgh, PA
1995	Teaching Assistant	Department of Epidemiology Graduate School of Public Health University of Pittsburgh Pittsburgh, PA
2001-2002	Senior Statistician	Department of Epidemiology Graduate School of Public Health University of Pittsburgh Pittsburgh, PA
2001-2003	Scientific Administrator	Obesity/Nutrition Research Center University of Pittsburgh, Pittsburgh, PA
2002- Present	Assistant Professor	Department of Epidemiology Graduate School of Public Health University of Pittsburgh Pittsburgh, PA

2003-2005	Associate Director	Clinical Evaluation and Epidemiology Core, Obesity/Nutrition Research Center University of Pittsburgh, Pittsburgh, PA
2006-2012 2013 - present	Associate Director Director	Ultrasound Research Laboratory, Department of Epidemiology, University of Pittsburgh Pittsburgh, PA
2016 - present	Assistant Professor Secondary Appointment	Clinical Translational Science Institute, University of Pittsburgh

MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

1998 - Present	Delta Omega National Honor Society
2000 - Present	Society for Epidemiologic Research
2000 - 2010	American Diabetes Association
2007 - Present	American Heart Association
2018 - Present	American Public Health Association

HONORS/AWARDS

1989	Chemistry Scholarship, National Science Foundation
1991	Cum Laude, Bryn Mawr College
1991	Summer Fellowship in Public Health Emory University, CDC and Morehouse School of Medicine
1993-1996	NRSA Pre-doctoral Fellowship, National Institutes of Health
1998	Delta Omega National Honors Society
1998-2001	NHLBI T32 CVD Epidemiology Postdoctoral Fellowship
2009	Selected Fellow, 2009 Course in Scientific Management and Leadership, University of Pittsburgh Schools of the Health Sciences (4/1/09-4/3/09)
2017	Selected Fellow, 2017-2018 Class, Professional Mentoring Skills Enhancing Diversity (PROMISED) Program

PROFESSIONAL ACTIVITIES

1. Teaching

a. Courses Taught

Years Taught	Course Number: Title	Hours of Lecture, credits Average Enrollment	Role in course Primary/Coordinator
2008 - 2012	EPIDEM 2152 Student Workshop in CVD Epidemiology: <ul style="list-style-type: none"> • <i>Professional Development</i> • <i>Sample Size</i> • <i>Reproducibility Analysis</i> • <i>Subclinical CVD Overview</i> • <i>Repeated Measures Analysis</i> • <i>Basics of Mediation Analysis</i> • <i>Manuscript Writing</i> • <i>Manuscript Reviews</i> 	15 hours 1 credit 6-12 students	Co- Instructor
2012-current	EPIDEM 2152 Student Workshop in CVD Epidemiology: <ul style="list-style-type: none"> • <i>Professional Development</i> • <i>Introduction to Meta-Analyses</i> • <i>Manuscript Writing Multi-centered Studies</i> • <i>Subclinical CVD Overview</i> • <i>Subclinical CVD Independent Projects</i> • <i>Introduction to Mediation Analysis</i> • <i>Writing an AHA Mentored Grant</i> • <i>Manuscript Writing</i> • <i>Overview of Cross Cohort Studies</i> 	15 hours 1 credit 6-12 students	Primary Instructor/ Course Director

b. Other Teaching (lectures, tutorials and continuing education courses)

Date(s)	Type of Teaching	Title
Fall 1995 Fall 1996	Tutorial for first year public health graduate students in the Public Health Careers Opportunity Program (PHCOP), University of Pittsburgh	Introductory Epidemiology and Biostatistics
July 1998	Lecture for PHCOP students	What is Epidemiology?
Fall 2000 Fall 2001	Lab Tutorial for EPIDEM 2180: Epidemiological Methods 1	Introduction to SAS
September 2007- Present	Instructor/Coordinator (2007-2013) Faculty Advisor (2013-present) Monthly Journal Club Department of Epidemiology	CVD Epidemiology Journal Club

Date(s)	Type of Teaching	Title
January 2011-2019	Lecture, EPIDEM 2150: Epidemiology of Cardiovascular Diseases	Overview of Subclinical Cardiovascular Disease Measures
September 2015, 2017-2019	Lecture, BCCHS 2526 Health Equity Research Methods	Assessment/Observation: Cohort Studies

c. Major Advisor for Graduate Student Essays, Theses, and Dissertations

Name of Student	Degree Awarded, Year	Type of Document and Title	Notes
MPH/MS Students:			
Sridevi Sirvella, MD	MPH, 2001	Thesis: Islet Cell Autoimmunity and Type 2 Diabetes Mellitus	Secondary Advisor
Mindy Columbus, MS	MPH, 2010	Essay: Obesity as a risk factor for subclinical CVD in menopausal women: a literature review	Enrolled Fall 2006 Academic and Research Advisor
Carly Switalski	MPH, 2011	Essay: Mobility and Independent Living in Elders Study (MILES), Medchal Mandal, India.	Enrolled Fall 2009- Academic Advisor
Victoria Novak	MPH, 2013	Disparities in Substance Abuse in Lesbian, Gay, Bisexual and Transgender Individuals: Is Homophobia the Driving Force?	Enrolled Fall 2011 Academic Advisor, Essay reader
Mansi Patel	MPH, 2015	Vascular Remodeling Postpartum	Enrolled Fall 2013, Academic/Research Advisor
Haidong Feng, MS	MPH, 2017	Cost-effectiveness Analysis of Out-of-hospital Cardiac Arrest Management Strategies	Enrolled Fall 2015 Academic Advisor Essay reader
Monica Heinrich	MPH, 2018	Cyber dating abuse perpetration: evolving methods of adolescent relationship abuse expression through technology	Enrolled Fall 2016 Academic Advisor Research Advisor
Siting Chen	MPH, 2019	Predictors of Weight Loss Following an Intentional Weight Loss Intervention and Long-term Weight Maintenance in Overweight and Obese Young Adults	Enrolled Fall 2017 Research/Academic Advisor

Name of Student	Degree Awarded, Year	Type of Document and Title	Notes
Hinnah Siddiqui	MPH, 2019	Functional Outcomes and Mortality Rates for Ischemic Stroke Patients Presenting to Rural Hospitals or Urban Hospitals in Pennsylvania	Enrolled Fall 2018 Research Advisor
Michelle Clifton	MS, 2020	Periaortic adipose tissue and central arterial stiffness in early midlife men	Enrolled Fall 2018 Academic/Research Advisor
Arshad Thaaqib Khalid	MPH candidate	Associations between blood flow characteristics, functional measures of subclinical vascular disease and cardiometabolic risk factors in overweight/obese youth	Enrolled Fall 2017 Research Advisor
Emily Guhl, MD	MS candidate	TBD	Enrolled Fall 2019 Academic Advisor

PhD/DrPH students:

Julius Asubonteng	PhD, 2014	Metabolic syndrome and subclinical atherosclerosis: association, remodeling and its associated risk factors	Enrolled 2010 Research Advisor, Dissertation Committee Chair
Nancy Niemczyk	PhD, 2015	Vascular Remodeling Associated with Pregnancy	Enrolled 2010, became primary advisor/committee chair Summer 2012
Jessica White (shared)	DrPH, 2015	Depression as a risk factor for cardiovascular disease in HIV-infected persons	Enrolled Fall 2011 Academic advisor
Emily Chunzhe Duan, MHS (shared)	PhD, 2017	Ambient air pollution and CVD risk	Enrolled 2014 Research and GSR Advisor
Natalie Suder, MPH	DrPH, 2017	Inflammation and plaque characteristics in high CVD risk populations	Enrolled Fall 2014 Academic and Research Advisor

d. Service on Masters or Doctoral Committees

Dates Served	Name of Student	Degree Awarded	Title of Dissertation/Essay
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Masters:

Dates Served	Name of Student	Degree Awarded	Title of Dissertation/Essay
2010	Brian Wagner	MPH (HPM)	Recommending Public Health Carotid Artery Intima-Media Thickness Research Protocols into a Clinical Environment
2011	Kelly Shields	MS	Perivascular Adipose Tissue of the Descending Thoracic Aorta, Vascular Calcification, and Systemic Lupus Erythematosus
2010- 2014	Jenn Oakley	MPH	Effect of HAART on Adipocytokines, lipids, insulin resistance and body fat in HIV infected men
2013	Norman Wang	MS	Association of inflammatory and hemostatic biomarkers with coronary artery calcification, SWAN Heart
2018	Yuan Yang	MPH	Genetic determinants of the B-type natriuretic peptide
2019	Brian Man	MPH	The Effects of Soy Isoflavones on Arterial Stiffness: A Systematic Review and Meta-Analysis of Randomized Controlled Trials
2019-2020	Julia Yudkovicz	MPH	Genetic and phenotypic correlations of obesity measures and cognitive/physical measures
Doctoral:			
2001	Khlood Salman	DrPH	Epidemiology of Lower Extremity Amputation in Amman, Jordan
2008- 2009	Janet Cipkala-Gaffen	PHD	An Evaluation of Psychosocial and Socio-demographic Factors Associated with Metabolic Syndrome and Cardiovascular Risk in Polycystic Ovary Syndrome Cases and Controls
2007- 2010	Vanisha Brown	PHD	CVD and Built Environment
2010	Sunghee Lee	PHD	Association between serum n-3 and n-6 fatty acids and Vitamin D and subclinical CVD in ERA-JUMP cohort
2012- 2013	Andrew Althouse	PhD	Peripheral Arterial Disease In T2DM (BARI-2D)
2013-2014	Anne Moody	PhD	Effects Of Changes In Weight, Body Composition, Fitness And Physical Activity On Aortic Pulse Wave Velocity In Overweight And Obese Adults
2013-2014	Abhishek Vishnu	PhD	Examination of Differences in Subclinical Atherosclerosis between US and Japan

Dates Served	Name of Student	Degree Awarded	Title of Dissertation/Essay
2013-2015	Vasudha Ahuja	PhD	Health disparities between Caucasians and Japanese: measures of diabetes, subclinical atherosclerosis, and coronary heart disease
2012-2015	Jia Xu	PhD	Women's cardiovascular risk after a prior preterm or small-for-gestational-age delivery
2015- 2017	(Vivien) Hsin-Hui Huang	PhD	Breast Cancer Treatment and CVD risk
2016- 2018	Andrea Stewart	DrPH	Role stress and rewards and CVD risk in midlife women
Current Students:			
2017 - present	Saad Samargandy	PhD	Cardiovascular fat and other predictors of subclinical atherosclerosis progression
2018 - present	Amanda S Hinerman	PhD	Cardiometabolic risk markers following weight loss surgery
2019 - present	Franya Hutchins	PhD	Long-term impacts of excessive gestational weight gain on maternal health
2020 - present	Mary Schiff	PhD	Community Disadvantage and Cardiometabolic Health in Midlife Women

e. Service on Comprehensive or Qualifying Examination Committees

Dates Served	Student Population	Type of Exam (Qualifying/Comprehensive)
2008	2 PhD Epidemiology	Comprehensive Exam
2010	2 PhD Epidemiology	Comprehensive Exam
2012	2 PhD Epidemiology	Comprehensive Exam
2013	1 DrPH Epidemiology	Qualifying Exam
2013	1 MS Epidemiology	Comprehensive Exam
2014	3 PhD, 1 DrPH Epidemiology	Comprehensive Exam
2016	1 PhD Epidemiology	Comprehensive Exam
2017	2 PhD, 1 DrPH Epidemiology	Comprehensive Exam
2018	1 PhD Epidemiology	Comprehensive Exam
2019	3 PhD Epidemiology	Comprehensive Exam
2020	1 MS Epidemiology	Comprehensive Exam

f. Supervision of Post-Doctoral Students, Residents, and Fellows

Dates	Student/Resident/Fellow	Activity
2011-2012	Kelly Shields, PhD	T32 co-mentor, MS committee member
2013-2014	Allison Kuipers, PhD	Supervising SCD journal club coordinator, research application of subclinical vascular measures
2014-2015	Will Fisher, PhD	Supervising SCD journal club coordinator, research application of subclinical vascular measures
2015 - 2018	Yamnia Cortes, PhD	Research and T32 mentor, research application of subclinical vascular measures, K12/K01 submission
2019 - present	Karen Jakubowski, PhD	Secondary post-doctoral research mentor, research application of subclinical vascular measures
2019 - present	Emily Guhl, MD	Academic advisor and CVD Epidemiology T32 mentor

g. Mentoring of Graduate Students in Field Placements

Dates	Name of Student	Degree/Program Description	Field Site
2006-2009	Genevieve Woodard	PHD/Carotid Ultrasound Research Testing and Reading and Application to study in Tobago	Ultrasound Research Lab (URL)
2007-2010	Brian Wagner	MPH (Dept. HPM)/MPH Internship/ Research Lab Administration and Protocol Development	URL
2009	Mindy Columbus	MPH/Summer Internship Carotid Ultrasound Research Methodology	URL
2011-2013	Julius Asubonteng	PHD/CVD Training Grant/Subclinical CVD Data Management/analyses	URL
2011-2014	Jessica White	PHD/CVD Training Grant/Subclinical CVD Testing, Data Management and Analyses	URL
2012-2013	Carrie Hanley	PhD/ SAVE Study GSR	URL
2015-2017	Natalie Suder	DrPH/Carotid Ultrasound Research Testing and Plaque Reading and Application to FEMA and MSHeart studies	URL
2015-2017	Emily Chunzhe Duan	PHD/ SWAN GSR, Subclinical CVD Data Management and Analyses	URL

Dates	Name of Student	Degree/Program Description	Field Site
2016-present	Christy Taylor	MD Student, Dean's Summer Research Program, Scholarly Project Faculty Mentor	URL

d. Other Teaching and Training

Dates	Teaching Activity	Program/Description
April 2007	Carotid IMT/ Arterial Stiffness Research Methodology Training	Tobago Family Health Study
August 2009, 2015		SWAN Study
March 2011		OAB study
May 2011		POUCH moms study
2015-2020		LLFS Study
2013		HuCardio
2020	New England Centenarian Study	
Summer 2012	Faculty Mentor for student internship at various community-based programs	Bridging the Gaps Program:
Summer 2013		Katie Macioce, Jesabel Rivera
Summer 2014		Jeska Hayes, Elise Gamertsfelder
Summer 2015		Maria Thurner-Diaz, Maria Fetterolf Alibek Mereke, Kali Stull
Spring 2012	Teaching Assistant Mentoring for EPIDEM 2152	Nancy Niemczyk
Fall 2012		Marquis Hawkins (post-doc)
Spring 2013		Andrew Althouse
Fall 2013		Jessica White
Spring 2014		Julius Asubonteng
Fall 2014		Mindy Columbus
Fall 2015, Spring 2016		Carrie Hanley Platt, Vivien Huang
Fall 2016, Spring 2017		Natalie Suder, Yamnia Cortes (post-doc)
Fall 2017		Dana Jorgensen
Spring 2015		Introduction to Vascular Measures in Research Setting (Independent Projects for EPIDEM 2152) – Faculty Mentor
Spring 2015 (2)	PUBHT 2011 Project Mentor	Mentoring Epidemiology Students on class project for Essentials of Public Health Course
Spring 2016 (3)		
Spring 2017 (4)		
Spring 2018 (2)		
Spring 2020 (5)		
Spring 2017	Faculty Mentor	Grant writing group for Aging and CVD training program early career investigators
2013-Present	Co-Director, Executive Committee member, Faculty mentor	NIH/NHLBI T32 CVD Epidemiology Training Program

Dates	Teaching Activity	Program/Description
2019-present	Faculty mentor	Undergraduate research internship: Introduction to Application of Vascular Measures in Epidemiologic Research (Chloe Wilson)

2. Research and Training

a. Grants and Contracts Received

Principal Investigator:

Current Research Support – Subcontract PI (n=2)

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
2017-2021	R01 AR070898 Social Stressors and Atherosclerosis in Women with Lupus	NIAMS	\$4,513	5%
2019-2021	UH2 AG064704 Identifying protective omics profiles in centenarians and translating these into preventive and therapeutic strategies	NIA	\$43,697	5%

Past

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
1994-1996	F31 DK09065-02 Epidemiology of Childhood Diabetes in Hispanic People	NIDDK	\$35,000	100%
2003-2004	Feasibility study of vascular stiffness in bariatric surgery population	Dept. of Epidemiology	\$8,000	NA
2012-2013	R01 HL077525-01A2 Clinical Trial to Reverse Early Arterial Stiffening	NHLBI	\$474,530	10%
2017-2019	R01 HL130471 Expectations of Discrimination and CVD Risk in Women	NHLBI	\$22,824	5%

Co-Investigator:

Current Research Support

Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
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Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
2019-2024	U19 AG063893-01 The Long Life Family Study	NIA	\$992,781	10%
2019-2020	Administrative Supplement to R01 MH108509 - Pathways linking severe worry with dementia risk [PALS]: Functional Neuroanatomy Correlates of Worry in Older Adults	NIMH	\$13,388	5%
2014-2019	AG012553 Study of Women's Health Across the Nations (SWAN) V – Coordinating Center	NIA	\$1,939,135	15%
2015-2020	R01 AG047139 Sleep, Circadian Rhythms, and Cardiometabolic Risk	NIA	\$19,952	5%
2016-2021	5P01 AG025204 Imaging Pathophysiology in Aging and Neurodegeneration	NIA	\$102,526	4%
2016-2021	AG051003-01A1 Vascular Moderators of Amyloid-Related Decline: From normal cognition to dementia	NIA	\$70,499.00	4%
2016-2021	RF1 AG053504 Menopausal Vasomotor Symptoms as a Marker of Brain Aging in Women	NIA	\$19,818	8%
2018-2023	P01 HL040962 Biobehavioral Studies of Cardiovascular Disease	NHLBI	\$38,681	10%
2018-2023	RF1 AG052525 Subclinical Vascular Disease and AD Pathology in the Transition	NIA	\$115,257	5%
2019-2022	R01 AG058883 Nitrite therapy to improve mitochondrial energetics and physical activity in older adults	NIA	\$15,877	3%

Past Research Support

Years Inclusive	Grant and/or Contract Number and Title	Source	Annual Direct Costs	% Effort
2001-2004	R01 DK56200 A1 Epidemiology of Islet Cell Autoimmunity in NIDDM	NIDDK	\$313,752	25%
2003-2005	5 P30 DK46204 Obesity/Nutrition Research Center	NIDDK	\$750,000	40%
2003-2005	1U01DK066585	NIDDK	\$293,393	50%

Longitudinal Assessment of Bariatric Surgery				
2006-2009	R01 HL0883326 Biochemical Heterogeneity in Morbidly Obese Women in the WHI Observational study	NHLBI	\$132,161	10%
2006-2010	R01 DK52600 Epidemiology of Heterogeneity in Type 2 Diabetes	NIDDK	\$31,882	25%
2006-2010	SAP 4100033126 Preventing Adverse Effects of Class 2 and 3 Obesity (RENEW)	PA State	\$40,508	5%
2009-2012	R01 HL028266-25 Epidemiology of Cardiovascular Risk Factors in Women	NHLBI	\$250,000	5%
2008-2012	K23 AR055671-01 Advanced Glycation End Products in SLE	NIAMS	\$9,486	10%
2007-2011	Biobehavioral Studies of CVD Program Project (AHAB-2)	NHLBI	\$172,900	5%
2008-2012	R01 AR048098 Study of LUPUS Vascular and Bone Longterm Endpoints (SOLVABLE)	NIAMS	\$31,084	5%
2006-2012	R01 HL077525-01A2 Clinical Trial to Reverse Early Arterial Stiffening	NHLBI	\$832,581	10%
2007-2012	R01 Epidemiology of CHD of Men Aged 40+ (ERA JUMP Renewal)	NHLBI	\$495,727	10%
2006-2013	R01 AR046588-09 Epidemiology of Systemic Lupus and Cardiovascular Disease	NIAMS	\$100,092	20%
2009-2014	AGO12553 -18 Study of Women's Health Across the Nations (SWAN) IV – Coordinating Center	NIA	\$1,484,286	20%
2010-2014	R01 HL103835 Preterm Delivery and Maternal CVD Risk	NHLBI	\$94,433	10%
2013-2015	Role of Femoral Atherosclerosis in Functional Status, CVD Events, and Mortality	NHLBI	\$481,465	10%
2011-2016	R01 HL105647-02 Mechanisms linking hot flashes to CVD risk	NHLBI	\$26,065	10%
2013-2018	R01 HL114857 Resistance and Cardiorespiratory Time-matched Exercise in Youth	NHLBI	\$27,847	5%
2008-2019	R01 HL089850-06 Neural Reactivity to Stress and Atherosclerosis	NHLBI	\$126,975	5%

2014-2018	U01AI110410 Dipyridamole As A Modulator Of HIV-1 Inflammation By Adenosine Regulation	NIAID	\$829,507	5%
2014-2019	U01 AG023744-09 Multicenter Study on Exceptional Survival in Families	NIA	\$946,799	10%
2015-2019	R01 HL122648 Pediatric Depression and Subsequent Cardiac Risk Factors	NHLBI	\$524,335	2.5%

b. Invited Lectureships and Major Seminars Related to Your Research

Date	Title of Presentation	Venue
March 18, 1999	Is type II diabetes an inflammatory-autoimmune disease?	72 nd Annual Meeting of the American Epidemiological Society, San Francisco, CA.
March 2005	Islet Cell Autoimmunity and Diabetes in the Elderly	Seminar Series Lecture Department of Epidemiology University of Pittsburgh Pittsburgh, PA
May 25, 2005	Islet Cell Autoimmunity and Diabetes in Older Individuals	Immunology Laboratory Seminar University of Pittsburgh Pittsburgh, PA
January 19, 2007	Islet Cell Autoimmunity and Diabetes in Older Individuals	GSPH Junior Faculty Seminar Series
April 2008	Is Evaluating Subclinical CVD by Race Important?	Seminar Series Lecture Department of Epidemiology University of Pittsburgh Pittsburgh, PA
April 20, 2010	Do the Effects of Obesity- Related Biomarkers on Vascular Stiffness Vary by Arterial Site?	GSPH Junior Faculty Seminar Series
October 5, 2012	Carotid IMT for CVD Screening?	Spotlight Session, Science 2012- Translation, Schools of Health Sciences, University of Pittsburgh
March 27, 2015	Markers of Vascular Aging: We are only as young as our arteries	Biology Seminar Series, Biology Department, Westminster College
November 2, 2016	Racial/ethnic differences in cumulative CVD risk factors as predictors of subclinical vascular disease in mid-life women	SWAN Steering Committee Meeting

Date	Title of Presentation	Venue
April 3, 2017	Markers of Vascular Aging	University of Pittsburgh Cardiovascular Epidemiology Conference, CVD Imaging: Workshop

c. Other Research and Training Activities

Professional Development:

Date	Position	Description of Activity
June 22-29, 2004	Participant	Research Coordinator Orientation University of Pittsburgh Office of Clinical Research
December 16, 2008	Participant	Faculty Workshop: Preparing to Serve on a Study Section Panel
Fall 2008	Participant	Faculty Mentoring Monthly Seminars
April 1-3, 2009	Participant	2009 Course in Scientific Management and Leadership, University of Pittsburgh
July 13-17 2015	Participant	Statistical Mediation and Moderation Analysis, Philadelphia, PA (Statistical Horizons Course)
April 21, 2018	Participant	American Statistical Society Short Course: Methods of Risk Prediction for Competing Events
June 11–15, 2018	Participant	2018 Summer Short Course on Causal Discovery from Biomedical Data, Carnegie Mellon University
May 2017 – April 2018	Participant	Career Coaching as part of the Professional Mentoring Skills Enhancing Diversity (PROMISED) program
September 28, 2018	Participant	SERTalks Workshop: Introduction to Parametric and Semi-parametric Estimators for Causal Inference
July 27, 2018	Participant	AAMC webinar: NIH Scientific Workforce Diversity Interactive Toolkit
June 1-30, 2019	Participant	Introduction to Machine Learning Course, Columbia University's EPIC Program

PUBLICATIONS

**Designates senior-authorship (n=8)*

1. Refereed Articles

1. Diabetes Epidemiology Research International (DERI) Mortality Study Group (**Prepared by Emma Barinas**). An International Analysis of IDDM Mortality: A Preventable Mortality Perspective. *American Journal of Epidemiology* 1995;142(6):612-618.
2. Tull ES, **Barinas E**, for the Pittsburgh Diabetes Epidemiology Research International (DERI) Study Group. A two fold excess mortality among black compared with white IDDM patients. *Diabetes Care*. 1996 Dec; 19(12): 1344-1347. PMID: 8941461.

3. LaPorte RE, Barinas E, Chang Y-F, Libman I. Global Epidemiology and Public Health in the 21st Century: Applications of New Technologies. *Annals of Epidemiology* 1996 Mar; 6(2): 162-167. PMID: 8775598.
4. Pietropaolo M, **Barinas-Mitchell E**, Pietropaolo SL, Kuller LH, Trucco M. Evidence of Islet Cell Autoimmunity in Elderly Patients With Type 2 Diabetes. *Diabetes* 2000 Jan; 49(1): 32-38. PMID: 10615947.
5. **Barinas-Mitchell E**, Cushman M, Meilahn EN, Tracy RP, Kuller LH. Associations between C-Reactive Protein, Obesity, Weight Gain, and Hormone Replacement Therapy in Healthy Post-Menopausal Women. *American Journal of Epidemiology*. 2001 Jun; 153(11): 1094-1101. PMID: 11390329.
6. Schauer PR, Burguera B, Ikramuddin S, Cottam D, Gourash W, Hamad G, Eid GM, Mattar S, Ramanathan R, **Barinas-Mitchell E**, Rao RH, Kuller L, Kelley D. The Effect of Laparoscopic Roux-En-Y Gastric Bypass (LGBP) on Type 2 Diabetes Mellitus. *Annals of Surgery* 2003 Oct; 238(4): 467-485. PMID: 14530719.
7. **Barinas-Mitchell E**, Pietropaolo S, Zhang Y-J, Henderson T, Trucco M, Kuller L, Pietropaolo M. Islet cell autoimmunity in a Triethnic Adult Population of the National Health and Nutrition Examination Survey (NHANES) III. *Diabetes*. 2004 May; 53(5): 1293-1302. PMID: 15111499.
8. Mattar SG, Velcu LM, Rabinovitz M, Demetris AJ, Krasinskas AM, **Barinas-Mitchell E**, Eid GM, Ramanathan R, Taylor DS, Schauer PR. Surgically-Induced Weight Loss Significantly Improves Nonalcoholic Fatty Liver Disease and the Metabolic Syndrome. *Annals of Surgery*. 2005 Oct; 242(4): 610-7. PMID: 16192822. PMCID: cottPMC1402345.
9. **Barinas-Mitchell E**, Kuller L, Pietropaolo S, Zhang Y-J, Henderson T, Pietropaolo M. The Prevalence of GAD65 Autoantibodies by Glucose Tolerance Status in Elderly Patients from the Cardiovascular Health Study. *J Clin Endocrinol Metab*. 2006 Aug; 91(8): 2871-7. PMID: 16720660.
10. Sacks BC, Mattar SG, Qureshi FG, Eid GM, Collins JL, **Barinas-Mitchell EJ**, Schauer PR, Ramanathan RC. Incidence of marginal ulcers and the use of absorbable anastomotic sutures in laparoscopic Roux-en-Y gastric bypass. *Surgery for Obesity & Related Diseases*. 2006 Jan-Feb; 2(1): 11-6. PMID: 16925306.
11. **Barinas-Mitchell E**, Kuller LH, Sutton-Tyrrell K, Hegazzi R, Harper P, Mancino J, Kelley DE. Effect of Weight Loss and Nutritional Intervention on Arterial Stiffness in Type 2 Diabetes Mellitus. *Diabetes Care*. 2006 Oct; 29(10): 2218-22. PMID: 17003296.
12. Pietropaolo M, **Barinas-Mitchell E**, Kuller LH. Heterogeneity of Diabetes Mellitus. Unraveling a Dispute: Is Systemic Inflammation Related to Islet Autoimmunity? *Diabetes*. 2007 May; 56(5): 1189-1197. PMID: 17322478.
13. Libman, IM, **Barinas-Mitchell E**, Bartucci, A, Arslanian, S. Reproducibility of the Oral Glucose Tolerance Test (OGTT) in Overweight Children: Does It Provide Meaningful Information? *J Clin Endocrinol Metab*. 2008 Nov; 93(11): 4231-7. PMID: 18713820. PMCID: PMC2582565.
14. Rhew EY, Manzi SM, Dyer AR, Kao AH, Danchenko N, **Barinas-Mitchell E**, Sutton-Tyrrell K, McPherson DD, Pearce W, Edmundowicz D, Kondos GT, Ramsey-Goldman R. Differences in subclinical cardiovascular disease between African American and Caucasian women with systemic lupus erythematosus. *Transl Res*. 2009 Feb; 153(2): 51-9. PMID: 19138649. PMCID: PMC2674850.
15. Whipple MO, Lewis TT, Sutton-Tyrrell K, Matthews KA, **Barinas-Mitchell E**, Powell LH, and Everson-Rose SA. Hopelessness, depressive symptoms and carotid atherosclerosis in women: the Study of Women's Health Across the Nation (SWAN) Heart Study. *Stroke*. 2009 Oct; 40(10): 3166-72. PMID: 19713542. PMCID: PMC2762349.
16. Libman IM, **Barinas-Mitchell E**, Marcovina S, Bacha F, Hannon T, Tfayli H, Lee SJ, Bansal S, Robertson R, Arslanian S. β -cell Autoimmunity in Overweight Non-Diabetic Youth: Any Implications? *Pediatric Diabetes*. 2011 May; 12(3 Pt 2): 207-11. PMID: 21518410.
17. Libman IM, **Barinas-Mitchell E**, Bartucci A, Chaves-Gnecco D, Robertson R, Arslanian S. Fasting and 2-hour plasma glucose and insulin: relationship with risk factors for cardiovascular disease (CVD) in overweight non-diabetic children. *Diabetes Care*. 2010 Dec; 33(12): 2674-76. PMID: 21115769.

18. Woodard GA, Brooks MM, **Barinas-Mitchell E**, Mackey RH, Matthews KA, Sutton-Tyrrell K. Lipids, Menopause and Early Atherosclerosis in SWAN Heart Women. *Menopause*. 2011 Apr; 18(4): 376-84. PMID: 21107300.
19. Njoroge JN, El Khoudary SR, Fried LF, **Barinas-Mitchell E**, Sutton-Tyrrell K. High Urinary Sodium Is Associated With Increased Carotid Intima-Media Thickness in Normotensive Overweight and Obese Adults. *American journal of hypertension*. 2011 Jan; 24(1): 70-6. PMID: 20508622
20. Khan UI, Wang D, Thurston RC, Sowers MF, Sutton-Tyrrell, Matthews KA, **Barinas-Mitchell E**, Wildman. Burden of subclinical cardiovascular disease in "metabolically benign" and "at-risk" overweight and obese women: The Study of Women's Health Across the Nation (SWAN). *Atherosclerosis*. 2011 Jul; 217(1): 179-86. PMID: 21310415.
21. Birru MS, Matthews KA, Thurston RC, Brooks MM, Ibrahim S, **Barinas-Mitchell E**, Janssen I, Sutton-Tyrrell K. African-American Ethnicity and Cardiovascular Risk Factors are Related to Aortic Pulse-Wave Velocity Progression. *American Journal of Hypertension*. 2011 Jul; 24(7): 809–815. PMID: 21490691
22. Wildman RP, Janssen I, Khan UI, Thurston R, **Barinas-Mitchell E**, El Khoudary SR, Everson-Rose SA, Kazlauskaitė R, Matthews KA, Sutton-Tyrrell K. Subcutaneous adipose tissue in relation to subclinical atherosclerosis and cardiometabolic risk factors in midlife women. *American Journal of Clinical Nutrition*. 2011 Apr; 93(4): 719-26. PMID: 21346089.
23. Krishnan E, Wildman RP, Barinas-Mitchell E, Cooper J, Sutton-Tyrrell K. Hyperuricemia and carotid artery dilation among young adults without metabolic syndrome. *Rheumatology Reports* 2012;4(1):21-25.
24. Cooper JN, Tepper P, **Barinas-Mitchell E**, Woodard GA, Sutton-Tyrrell K. Serum aldosterone is associated with inflammation and aortic stiffness in normotensive overweight and obese young adults. *Clinical and Experimental Hypertension*. 2012; 34(1): 63-70. PMID:22007645
25. Sekikawa A, Shin C, Curb JD, **Barinas-Mitchell E**, Masaki K, El-Saed A, Seto TB, Mackey RH, Choo J, Fujiyoshi A, Miura K, Edmundowicz D, Kuller LH, Ueshima H, Sutton-Tyrrell K. Aortic stiffness and calcification in men in a population-based international study. *Atherosclerosis*. 2012 Jun; 222(2): 473-7. PubMed PMID: 22537531; PubMed Central PMCID: PMC3361615.
26. Cooper JN, Columbus ML, Shields KJ, Asubonteng J, Meyer ML, Sutton-Tyrrell K, Goodpaster BH, Delany JP, Jakicic JM, **Barinas-Mitchell E**. Effects of an intensive behavioral weight loss intervention consisting of caloric restriction with or without physical activity on common carotid artery remodeling in severely obese adults. *Metabolism*. 2012 Nov; 61(11): 1589-97. PMID: 22579053. **(senior author) ***
27. Lloyd K, **Barinas-Mitchell E**, Kuller L, Mackey RH, Wong EA, Sutton-Tyrrell K. Common Carotid Artery Diameter and Cardiovascular Risk Factors in Overweight or Obese Postmenopausal Women. *International Journal of Vascular Medicine*. 2012; PMCID: 2295725.
28. Cooper JN, Buchanich JM, Youk A, Brooks MM, **Barinas-Mitchell E**, Conroy MB, Sutton-Tyrrell K. Reductions in arterial stiffness with weight loss in overweight and obese young adults: Potential mechanisms. *Atherosclerosis*. 2012 Aug; 232(2): 485-90. PMID: 22703865.
29. El Khoudary SR, **Barinas-Mitchell E**, White J, Sutton-Tyrrell K, Kuller LH, Curb JD, Shin C, Ueshima H, Masaki K, Evans RW, Miura K, Edmundowicz D, Sekikawa A, for the ERA JUMP Study Group. Adiponectin, systolic blood pressure, and alcohol consumption are associated with more aortic stiffness progression among apparently healthy men. *Atherosclerosis*. 2012 Dec; 225(2): 475-80. PMID: 23040831.
30. Rosano C, Watson N, Chang YF, Newman A, Aizenstein H, Du Y, Venkatraman V, Harris TB, **Barinas-Mitchell E**, Sutton-Tyrrell K. Aortic Pulse wave velocity predicts focal white matter hyperintensities in a biracial cohort of older adults. *Hypertension*. 2013 Jan; 61(1): 160-165. PMID: 23172923.
31. Okamura T, Sekikawa A, Sawamura T, Kadowaki T, **Barinas-Mitchell E**, Mackey RH, Kadota A, Evans RW, Edmundowicz D, Higashiyama A, Nakamura Y, Abbott RD, Miura K, Fujiyoshi A, Fujita Y, Murakami Y, Miyamatsu N, Kakino A, Maegawa H, Murata K, Horie M, Mitsunami K, Kashiwagi A, Kuller LH, Ueshima H, Group EJS. Lox-1 ligands containing apolipoprotein b and carotid intima-

- media thickness in middle-aged community-dwelling us caucasian and japanese men. *Atherosclerosis*. 2013 Jul; 229(1): 240-245. PMID: 23683938.
32. Shields KJ, **Barinas-Mitchell E**, Gingo MR, Tepper P, Goodpaster BH, Kao AH, Manzi S, Sutton-Tyrrell K. Perivascular adipose tissue of the descending thoracic aorta is associated with systemic lupus erythematosus and vascular calcification in women. *Atherosclerosis*. 2013 Nov; 231(1): F129-135. PMID: 24125423.
 33. Kavanagh K, Espeland MA, Sutton-Tyrrell K, **Barinas-Mitchell E**, El Khoudary SR, Wildman RP. Liver fat and SHBG affect insulin resistance in midlife women: the Study of Women's Health Across the Nation (SWAN). *Obesity (Silver Spring, Md.)*. 2013 May; 21(5): 1031-8. PMCID: PMC3695405. PMID: 23784907.
 34. Hughes TM, Kuller LH, **Barinas-Mitchell EJ**, Mackey RH, McDade EM, Klunk WE, Aizenstein HJ, Cohen AD, Snitz BE, Mathis CA, Dekosky ST, Lopez OL. Pulse wave velocity is associated with beta-amyloid deposition in the brains of very elderly adults. *Neurology*. 2013 Nov 5; 81(19): 1711-1718. PMID:24132374.
 35. Catov JM, Dodge R, **Barinas-Mitchell E**, Sutton-Tyrrell K, Yamal JM, Piller LB, Ness RB. Prior preterm birth and maternal subclinical cardiovascular disease 4 to 12 years after pregnancy. *Journal of women's health*. 2013 Oct; 22(10): 835-843. PMID:24033091.
 36. Sekikawa A, Shin C, Masaki KH, **Barinas-Mitchell EJ**, Hirooka N, Willcox BJ, Choo J, White J, Evans RW, Fujiyoshi A, Okamura T, Miura K, Muldoon MF, Ueshima H, Kuller LH, Sutton-Tyrrell K, for the ERAJSG. Association of total marine fatty acids, eicosapentaenoic and docosahexaenoic acids, with aortic stiffness in koreans, whites, and japanese americans. *American journal of hypertension*. 2013 Nov; 26(11): 1321-7. PMID:23820020.
 37. Cooper JN, Fried L, Tepper P, **Barinas-Mitchell E**, Conroy MB, Evans RW, Mori Brooks M, Woodard GA, Sutton-Tyrrell K. Changes in serum aldosterone are associated with changes in obesity-related factors in normotensive overweight and obese young adults. *Hypertension Research* . 2013 Oct; 36(10): 895-901. PMID: 23657296. PMCID: PMC3766434.
 38. Cooper JN, Evans RW, Mori Brooks M, Fried L, Holmes C, **Barinas-Mitchell E**, Sutton-Tyrrell K. Associations between arterial stiffness and platelet activation in normotensive overweight and obese young adults. *Clinical and experimental hypertension (New York, N.Y.)*. 2014; 36(3): 115-22. PMID: 23654212.
 39. Hirooka N, Shin C, Edmundowicz D, Choo J, **Barinas-Mitchell E**, Wilcox B, Sutton-Tyrrell K, El-Saed A, Miljkovic-Gacic I, Ohkubo T, Miura K, Ueshima H, Kuller L, Sekikawa A. The Associations of Indices of Obesity With Lipoprotein Subfractions in Japanese American, African American and Korean men. *Global Heart*. 2013 Sep 1; 8(3): 273-280. PMID: 25068101. PMCID: PMC4110345.
 40. Althouse AD, Abbott JD, Forker AD, Bertolet M, **Barinas-Mitchell E**, Thurston RC, Mulukutla S, Aboyans V, Brooks MM, for the BARI 2D Study Group. Risk Factors for Incident Peripheral Arterial Disease in Type 2 Diabetes: Results From the Bypass Angioplasty Revascularization Investigation 2 Diabetes Trial. *Diabetes Care*. 2014; 37(5): 1346-52. PMID: 24595631.
 41. Vishnu A, Choo J, Masaki KH, Mackey RH, **Barinas-Mitchell E**, Shin C, Willcox BJ, El-Saed A, Seto TB, Fujiyoshi A, Miura K, Lee S, Sutton-Tyrrell K, Kuller LH, Ueshima H, Sekikawa A; ERA JUMP Study Group. Particle numbers of lipoprotein subclasses and arterial stiffness among middle-aged men from the ERA JUMP study. *J Hum Hypertens*. 2014 Feb; 28(2): 111-7. PubMed PMID: 23823580; PMCID: PMC3800263.
 42. Sekikawa A, Miura K, Lee S, Fujiyoshi A, Edmundowicz D, Kadowaki T, Evans RW, Kadowaki S, Sutton-Tyrrell K, Okamura T, Bertolet M, Masaki KH, Nakamura Y, **Barinas-Mitchell EJ**, Willcox BJ, Kadota A, Seto TB, Maegawa H, Kuller LH, Ueshima H, for the ERAJSG. Long chain n-3 polyunsaturated fatty acids and incidence rate of coronary artery calcification in japanese men in japan and white men in the USA: Population based prospective cohort study. *Heart*. 2014 Apr; 100(7): 569-73. PMID:24352736. PMCID: PMC3949146.
 43. Xu J, **Barinas-Mitchell E**, Kuller LH, Youk AO, Catov JM. Maternal hypertension after a low-birth-weight delivery differs by race/ethnicity: evidence from the National Health and Nutrition Examination

- Survey (NHANES) 1999-2006. PLoS One. 2014 Aug 5; 9(8): e104149. doi: 10.1371/journal.pone.0104149. eCollection 2014. PMID: 25093324. PMCID: PMC4122444.
44. Nagasawa SY, Ohkubo T, Masaki K, **Barinas-Mitchell E**, Miura K, Seto TB, El-Saed A, Kadowaki T, Willcox BJ, Edmundowicz D, Kadota A, Evans RW, Kadowaki S, Fujiyoshi A, Hisamatsu T, Bertolet MH, Okamura T, Nakamura Y, Kuller LH, Ueshima H, Sekikawa A. Associations between Inflammatory Markers and Subclinical Atherosclerosis in Middle-aged White, Japanese-American and Japanese Men: The ERA-JUMP Study. *J Atheroscler Thromb*. 2015; 22(6): 590-8. doi: 10.5551/jat.23580. Epub 2014 Nov 29. PMID: 25445888.
45. Thurston RC, El Khoudary SR, Derby CA, **Barinas-Mitchell E**, Lewis TT, McClure CK, Matthews KA. Low socioeconomic status over 12 years and subclinical cardiovascular disease: the study of women's health across the nation. *Stroke*. 2014 Apr; 45(4): 954-60. PMCID: PMC3981101; PMID: 24578209.
46. Hughes TM, Kuller LH, **Barinas-Mitchell EJ**, McDade EM, Klunk WE, Cohen AD, Mathis CA, Dekosky ST, Price JC, Lopez OL. Arterial Stiffness and β -Amyloid Progression in Nondemented Elderly Adults. *JAMA Neurology*. 2014 May; 71(5): 562-68. PMID: 24687165; PMCID: PMC4267249.
47. Choo J, Shin C, **Barinas-Mitchell E**, Masaki K, Willcox BJ, Seto TB, Ueshima H, Lee S, Miura K, Venkitachalam L, Mackey RH, Evans RW, Kuller LH, Sutton-Tyrrell K, Sekikawa A. Regional pulse wave velocities and their cardiovascular risk factors among healthy middle-aged men: a cross-sectional population-based study. *BMC Cardiovasc Disord*. 2014 Jan 13; 14:5. doi: 10.1186/1471-2261-14-5. PMID: 24410766; PMCID: PMC3893368.
48. Subauste A, Gianani R, Chang AM, Plunkett C, Pietropaolo SL, Zhang YJ, **Barinas-Mitchell E**, Kuller LH, Galecki A, Halter JB, Pietropaolo M. Islet autoimmunity identifies a unique pattern of impaired pancreatic beta-cell function, markedly reduced pancreatic beta cell mass and insulin resistance in clinically diagnosed type 2 diabetes. *PLoS One*. 2014 Sep 16; 9(9): e106537. doi: 10.1371/journal.pone.0106537. eCollection 2014. PMID: 25226365. PMCID: PMC4165581.
49. Ahuja V, Kadowaki T, Evans RW, Kadota A, Okamura T, El Khoudary SR, Fujiyoshi A, **Barinas-Mitchell EJ**, Hisamatsu T, Vishnu A, Miura K, Maegawa H, El-Saed A, Kashiwagi A, Kuller LH, Ueshima H, Sekikawa A, ERA JUMP Study Group. Comparison of HOMA-IR, HOMA- β % and disposition index between US white men and Japanese men in Japan: the ERA JUMP study. *Diabetologia*. 2015 Feb; 58(2): 265-71. PMID: 25316435. PMCID: PMC4289411. doi:10.1007/s00125-014-3414-6.
50. Mackey RH, McTigue KM, Chang YF, **Barinas-Mitchell E**, Evans RW, Tinker LF, Lewis CE, Manson JE, Stefanick ML, Howard BV, Phillips LS, Liu S, Kulick D, Kuller LH. Lipoprotein particles and size, total and high molecular weight adiponectin, and leptin in relation to incident coronary heart disease among severely obese postmenopausal women: The Women's Health Initiative Observational Study. *BBA Clinical*. 2015 Jun; 3: 243-250. PMID: 25825692; PMCID: PMC4375554.
51. Vishnu A, Choo J, Wilcox B, Hisamatsu T, **Barinas-Mitchell E.J.M.**, Fujiyoshi A, Mackey RH, Kadota A, Ahuja V, Kadowaki T, Edmundowicz D, Miura K, Rodriguez BL, Kuller LH, Shin C, Masaki K, Ueshima H, Sekikawa A, ERA JUMP Study Group. Brachial-ankle pulse wave velocity is associated with coronary calcification among 1131 healthy middle-aged men. *Int. J Cardiol*. 2015; 189: 67-72. doi: 10.1016/j.ijcard.2015.04.020. PMID: 25885874; PMCID: PMC4446167.
52. Lee J, Woodard GA, Gianaros PJ, **Barinas-Mitchell E**, Tepper PG, Conroy MB. Ectopic adiposity is associated with autonomic risk factors and subclinical CVD in young adults. *Obesity (Silver Spring)*. 2015 Oct; 23(10): 2030-6. doi: 10.1002/oby.21138. PMID: 26333626; PMCID: PMC4587338.
53. Niemczyk NA, Catov JM, **Barinas-Mitchell E**, McClure CK, Roberts JM, Tepper PG, Sutton-Tyrrell K. Nulliparity is associated with less healthy markers of subclinical cardiovascular disease in young women with overweight or obesity. *Obesity*. 2015 May; 23(5): 1085-91. doi: 10.1002/oby.21044. Epub 2015 Apr 10. PMID: 25866258; PMCID: PMC4414732 (**senior author**) *
54. Horner K, Kuk JL, **Barinas-Mitchell E**, Drant S, DeGross C, Lee SJ. Effect of Aerobic versus Resistance Exercise on Pulse Wave Velocity, Intima Media Thickness and Left Ventricular Mass in Obese Adolescent. *Pediatric Exercise Science*. 2015 Nov; 27(4):494-502. doi: 10.1123/pes.2015-0067 PMID: 26181766.

55. Thompson T, Shields KJ, **Barinas-Mitchell E**, Newman A, Sutton-Tyrrell K. Calcified carotid artery plaques predict CVD outcomes in the elderly. *J Hyper*. 2015 Apr; 33(4): 810-7. doi: 10.1097/HJH.0000000000000488. PMID: 25915886.
56. Ahuja V, Masaki K, **Barinas-Mitchell E**, Rodriguez BL, Althouse AD, Ueshima H, Vishnu A, Seto TB, Kuller LH, Wilcox B, Sekikawa A; The ERA JUMP Study. Significantly greater progression of intima-media thickness of the carotid artery in Japanese American men than white men- the ERA JUMP Study. *Can J Cardio*. 2016 Oct; 32(10): 1246.e7-1246.e12. doi: 10.1016/j.cjca.2015.12.013. Epub 2015 Dec 18. PMID: 26947536; PMCID: PMC4912953.
57. El Khoudary SR, Shields KJ, Janssen I, Hanley C, Budoff MJ, **Barinas-Mitchell E**, Everson-Rose SA, Powell LH, Matthews KA. Cardiovascular Fat, Menopause, and Sex Hormones in Women: The SWAN Cardiovascular Fat Ancillary Study. *The Journal of Clinical Endocrinology and Metabolism*. 2015 Sep; 100(9):3304-12. doi: 10.1210/JC.2015-2110. PMID: 26176800, PMCID: PMC4570161.
58. El Khoudary SR, Shin C, Masaki K, Miura K, Budoff M, Edmundowicz D, Kadowaki S, **Barinas-Mitchell E**, El-Saed A, Fujiyoshi A, Evans RW, Hisamatsu T, Ohkubo T, Willcox BJ, Kuller LH, Ueshima H, Sekikawa A. Ectopic Cardiovascular Fat in Middle-Aged Men: Effects of Race/Ethnicity, Overall and Central Adiposity. The ERA-JUMP Study. *International Journal of Obesity* 2015 Mar; 39(3): 488-94. doi: 10.1038/ijo.2014.154. PMID: 25109783; PMCID: PMC4324390.
59. El Khoudary SR, Chen HY, **Barinas-Mitchell E**, McClure C, Selzer F, Karvonen-Gutierrez C, Jackson EA, Ylitalo KR, Sternfeld B. Simple physical performance measures and vascular health in late midlife women: the Study of Women's Health across the nation. *International journal of cardiology*. 2015 Mar; 182: 115-20. PMID: 25577747, PMCID: PMC4382424.
60. El Khoudary SR, Santoro N, Chen H-Y, Tepper PG, Brooks MM, Thurston RC, Janssen I, Harlow SD, **Barinas-Mitchell E**, Selzer F, Derby CA, Jackson EA, McConnell D, Matthews KA. Trajectories of estradiol and follicle-stimulating hormone over the menopause transition and early markers of atherosclerosis after menopause. *European Journal of Preventive Cardiology*. 2016 May; 23(7):694-703. PMID: 26385249; PMCID: PMC4816655.
61. Perdomo SJ, Moody AM, McCoy SM, **Barinas-Mitchell E**, Jakicic JM, Barone Gibbs, B. Effects on Carotid-Femoral Pulse Wave Velocity 24 Hours Post-Exercise in Young Healthy Adults. *Hypertens Res*. 2016 Jun; 39(6): 435-9. PMID: 26763854.
62. Thurston RC, Matthews KA, Chang Y, Santoro N, **Barinas-Mitchell E**, von Känel R, Landsittel DP, Jennings JR. Changes in heart rate variability during vasomotor symptoms among midlife women. *Menopause* 2016 May; 23(5): 499-505. PMID: 26926327; PMCID: PMC4844776.
63. Wang NC, Matthews, KA, **Barinas-Mitchell EJM**, Chang CH, and El Khoudary SR. Inflammatory/hemostatic biomarkers and coronary artery calcification in midlife women of African-American and white race/ethnicity: the Study of Women's Health Across the Nation (SWAN) heart study. *Menopause* 2016 Jun; 23(6): 653-661. PMID: 27023861.
64. Hughan KS, Tfayli H, Warren-Ulanch, JG, **Barinas-Mitchell E**, Arslanian S. Early Biomarkers of Subclinical Atherosclerosis in Obese Adolescent Girls with Polycystic Ovary Syndrome. *Journal of Pediatrics* 2016 Jan; 168: 104-11. PMID: 26545724.
65. Wang NC, Matthews, KA, **Barinas-Mitchell EJM**, Chang CH, and El Khoudary SR. Inflammatory/Hemostatic Biomarkers and Coronary Artery Calcium Progression in Women at Midlife (From the Study of Women's Health Across the Nation [SWAN] Heart Study). *American journal of cardiology* 2016 Aug; 118(3): 311-8. PMID: 27289291; PMCID: PMC4949081.
66. Meyer ML, Tepper PG, **Barinas-Mitchell E**, Korykowski MT, Talbot EO. Varying patterns of brachial artery flow-mediated dilation in women with polycystic ovary syndrome and controls: An application of group-based trajectory modeling. *J Clin Ultrasound*. 2016 Jan; 44(1):46-54. PMID: 26177749.
67. Nagaraj N, Matthews KA, Shields KJ, **Barinas-Mitchell E**, Budoff MJ, El Khoudary SR. Complement proteins and arterial calcification in middle aged women: Cross-sectional effect of cardiovascular fat. The SWAN Cardiovascular Fat Ancillary Study. *Atherosclerosis*. 2015 Dec; 243(2):533-9. PMID: 26523990.
68. Jorge A, Lertratanakul A, Lee J, Pearce W, McPherson D, Thompson T, **Barinas-Mitchell E**,

- Ramsey-Goldman R. Depression and Progression of Subclinical Cardiovascular Disease in Systemic Lupus Erythematosus. *American college of rheumatology*. 2017 Jan; 69 (1): 5-11. PMID: 27390248. PMCID: PMC5191977.
69. Guo J, Fujiyoshi A, Masaki K, Vishnu A, Kadota A, **Barinas-Mitchell EJ**, Hisamatsu T, Ahuja V, Takashima N, Evans RW, Willcox BJ, Miura K, Rodriguez B, Ueshima H, Kuller LH, Sekikawa A. The role of initial and longitudinal change in blood pressure on progression of arterial stiffness among multiethnic middle-aged men. *Journal of Hypertension* 2017 Jan; 35(1):111-117. PMID: 27775956.
70. Lee S, Ahuja V, Masaki K, Evans RW, **Barinas-Mitchell EJ**, Ueshima H, Shin C, Choo J, Hassen L, Edmundowicz D, Kuller LH, Willcox B, Sekikawa A. A significant positive association of Vitamin D deficiency with coronary artery calcification among middle-aged men: for the ERA JUMP Study. *Journal of American College of Nutrition* 2016; 35(7):614-620. PMID: 27315115.
71. Guo J, Fujiyoshi A, Willcox B, Choo J, Vishnu A, Hisamatsu T, Ahuja V, Takashima N, **Barinas-Mitchell E**, Kadota A, Evans RW, Miura K, Edmundowicz D, Masaki K, Shin C, Kuller LH, Ueshima H, Sekikawa A; ERA JUMP Study Group. Increased aortic calcification is associated with arterial stiffness progression in multiethnic middle-aged men. *Hypertension* 2017 Jan; 69(1): 102-108. PMID: 27821619.
72. Thurston RC, Chang Y, **Barinas-Mitchell E**, Jennings JR, Landsittel DP, Santoro N, von Känel R, Matthews KA. Menopausal hot flashes and carotid intima media thickness among midlife women. *Stroke* 2016 Dec; 47(12):2910-2915. PMID: 27834746; PMCID: PMC5134903.
73. Thurston RC, Chang Y, von Känel R, **Barinas-Mitchell E**, Jennings JR, Hall MH, Santoro N, Buysse DJ, Matthews KA. Sleep characteristics and carotid atherosclerosis among midlife women. *Sleep* 2017 Feb 1;40 (2). PMID 28364498.
74. Elias T, Williams KR, Hershey TB, Documet PI, **Barinas-Mitchell E**, Gary-Webb T. The Health Equity Certificate Program. A Targeted Approach to Reducing Health Disparities and Increasing the Competence of Health Professional Students. *Pedagogy in Health Promotion* 2016.
75. Ahuja V, Masaki K, Vishnu A, Ye L, Wilcox B, Wassel C, Fujiyoshi A, **Barinas-Mitchell EJ**, Miura K, Ueshima H, Rodriguez BL, Edmundowicz D, Sekikawa A; ERA JUMP Study. Progression of coronary artery calcification in Japanese American men and white men in the ERA JUMP study. *International Journal of Cardiology* 2017 Feb 1;4(228):672-676. PMID: 27883980.
76. Thurston RC, Chang Y, **Barinas-Mitchell E**, von Känel R, Jennings JR, Santoro N, Landsittel DP, Matthews KA. Child Abuse and Neglect and Subclinical Cardiovascular Disease Among Midlife Women. *Psychosom Med*. 2017 May; 79 (4): 441-449. PMID: 27763988.
77. Matthews KA, El Khoudary SR, Brooks MM, Derby CA, Harlow SD, **Barinas-Mitchell EJ**, Thurston RC. Lipid changes around the final menstrual period predict carotid subclinical disease in postmenopausal women. *Stroke* 2017; 48 (1): 70-76. PMID 27909203; PMCID: PMC5183479.
78. Lott M, Kriska A, **Barinas-Mitchell E**, Wang L, Storti K, Winger D, Conroy M. Impact of Lifestyle Strategies on Long-Term Physical Activity and Weight. *Journal of Physical Activity and Health*. 2017. Aug; 14(8): 606-611. PMID: 28422536.
79. Wassel, CL, Ellia, AM, Suder NC, **Barinas-Mitchell E**, Rifkin DE, Forbang NI, Denenberg JO, Marasco AM, McQuaide BJ, Jenny NS, Allison MA, Ix JH, Criqui MH. Femoral Artery Atherosclerosis is associated with Physical Function across the Spectrum of the Ankle Brachial Index: The San Diego Population Study (SDPS). *JAHA* 2017 Jul 20;6(7). pii: e005777. doi: 10.1161/JAHA.117.005777. PubMed PMID: 28729408; PubMed Central PMCID: PMC5586297.
80. Thurston RC, Chang Y, **Barinas-Mitchell E**, Jennings JR, von Känel R, Landsittel DP, Matthews KA. Physiologically assessed hot flashes and endothelial function among midlife women. *Menopause*. 2018 Nov;25(11):1354-1361. doi:10.1097/GME.0000000000001239. PubMed PMID: 30358732.
81. Hsu S, Rifkin DE, Criqui MH, Suder NC, Garimella P, Ginsberg C, Marasco AM, McQuaide BJ, **Barinas-Mitchell EJ**, Allison MA, Wassel CL, Ix JH. Relationship of Femoral Artery Ultrasound Measures of Atherosclerosis with Chronic Kidney Disease. *J Vasc Surg*. 2017 Dec 22. pii: S0741-5214(17)32513-2. doi:10.1016/j.jvs.2017.09.048. [Epub ahead of print] PubMed PMID: 29276107.
82. Cortes YI, Catov JM, Brooks M, Harlow SD, Isasi CR, Jackson EA, Matthews KA, Thurston RC,

Barinas-Mitchell E. History of Adverse Pregnancy Outcomes, Blood Pressure, and Subclinical Vascular Measures in Late Midlife: SWAN (Study of Women's Health Across the Nation). *J Am Heart Assoc.* 2018;7(1). PubMed PMID: 29288157; PubMed CentralPMCID: PMC5778964.

(senior author)*

83. Egnot NS, **Barinas-Mitchell E**, Criqui MH, Allison MA, Ix JH, Jenny NS, Wassel CL. An exploratory factor analysis of inflammatory and coagulation markers associated with femoral artery atherosclerosis in the San Diego Population Study. *Thromb Res.* 2018 Feb 13;164:9-14. doi: 10.1016/j.thromres.2018.02.003. PubMed PMID: 29459247. **(Dissertation advisor)**
84. Mahajan H, Choo J, Masaki K, Fujiyoshi A, Guo J, Hisamatsu T, Evans R, Shangguan S, Willcox B, Okamura T, Vishnu A, **Barinas-Mitchell E**, Ahuja V, Miura K, Kuller L, Shin C, Ueshima H, Sekikawa A. Association of alcohol consumption and aortic calcification in healthy men aged 40-49 years for the ERA JUMP Study. *Atherosclerosis.* 2018 Jan;268:84-91. doi: 10.1016/j.atherosclerosis.2017.11.017. Epub 2017 Nov 21. PubMed PMID: 29195109; PubMed Central PMCID: PMC5869702.
85. Thurston RC, **Barinas-Mitchell E**, von Känel R, Chang Y, Koenen KC, Matthews KA. Trauma exposure and endothelial function among midlife women. *Menopause.* 2018 Apr;25(4):368-374. doi: 10.1097/GME.0000000000001036. PubMed PMID: 29206773; PubMed Central PMCID: PMC5866191.
86. Kadowaki S, Miura K, Kadowaki T, Fujiyoshi A, El-Saed A, Masaki KH, Okamura T, Edmundowicz D, Rodriguez BL, Nakamura Y, **Barinas-Mitchell EJM**, Kadota A, Willcox BJ, Abbott RD, Kuller LH, Choo J, Shin C, Ueshima H, Sekikawa A, ERA JUMP Study Group. International Comparison of Abdominal Fat Distribution Among Four Populations: The ERA-JUMP Study. *Metab Syndr Relat Disord.* 2018 May; 16(4): 166-173. PMID: 29715072.
87. Vishnu A, Choo J, Kadota A, **Barinas-Mitchell EJM**, Fujiyoshi A, Long DL, Hisamatsu T, Ahuja V, Nakamura Y, Evans R, Miura K, Masaki KH, Shin C, Ueshima H, Sekikawa A. Comparison of Carotid Plaque Burden among Healthy Middle-Aged Men Living in the US, Japan, and South Korea. *Int Jour Cardiology.* 2018 Sep; 266: 245-249. PMID: 29887456. PMCID: PMC5998331.
88. Thurston RC, Bhasin S, Chang Y, **Barinas-Mitchell E**, Matthews KA, Jasuja R, Santoro N. Reproductive Hormones and Subclinical Cardiovascular Disease in Midlife Women. *The Journal of Clinical Endocrinology and Metabolism.* 2018 Aug; 103(8): 3070-3077. PMID: 29788255. PMCID: PMC6276700.
89. Niemczyk NA, Bertolet M, Catov JM, Desai M, McClure CK, Roberts JM, Sekikawa A, Tepper PG, **Barinas-Mitchell EJ**. Common Carotid Artery Intima-Media Thickness Increases throughout the Pregnancy Cycle: A Prospective Cohort Study. *BMC Pregnancy & Childbirth.* 2018 May; 18(1): 195. PMID: 29855290. PMCID: PMC5984334. **(Senior Author)***
90. Khan ZA, Janssen I, Mazzarelli JK, Powell LH, Dumasius A, Everson-Rose, SA, **Barinas-Mitchell E**, Matthews K, El Khoudary SR, Weinstock PJ, Hollenberg SM. Serial Studies in Subclinical Atherosclerosis During Menopausal Transition (From the Study of Women's Health Across the Nation). *American Journal of Cardiology.* 2018 Oct; 122(7): 1161-1168. PMID: 30077316. PMCID: PMC6345556.
91. Niemczyk NA, Catov JM, Desai M, McClure CK, Roberts JM, Sekikawa A, Tepper PG, **Barinas-Mitchell E**. Brachial Artery Stiffening in Healthy Primigravidas is Associated with Weight Gain and Increased Cardiac Output. *Hypertens Pregnancy* 2018 Nov;37(4):204-211. doi: 10.1080/10641955.2018.1524479. Epub 2018 Sep 26. PubMed PMID: 30257118; PubMed Central PMCID: PMC6330891. **(Senior Author)***
92. Duan C, Talbott EO, Brooks MM, Park SK, Broadwin R, Matthews KA, **Barinas-Mitchell E**. Five-year exposure to PM2.5 and ozone and subclinical atherosclerosis in late midlife women: The Study of Women's Health Across the Nation. *Int J Hyg Environ Health.* 2019 Mar;222(2):168-176. PMID: 30236459; PubMed Central PMCID: PMC6408975. **(Senior Author)***
93. Catov J, Snyder GG, Bullen BB, **Barinas-Mitchell EJM**, Holzman C. Women with preterm birth have evidence of subclinical atherosclerosis a decade after delivery. *Journal of Women's Health (Larchmt).* 2019 May;28(5):621-627. PMID: 30388049. PMCID: PMC6537116.

94. Cortés YL, Parikh N, Allison MA, Criqui MH, Suder N, **Barinas-Mitchell E**, Wassel CL. Women's Reproductive History and Pre-Clinical Peripheral Arterial Disease in Late Life: The San Diego Population Study. *Journal of Women's Health (Larchmt)*. 2019 Aug; 28(8): 1105-1115. PMID: 30508411. PMCID: PMC6703238. (**Post-doctoral mentor**)
95. Kuipers A, Miljkovic I, **Barinas-Mitchell E**, Cvejkus R, Bunker CH, Wheeler VW, Zmuda JM. Arterial stiffness and hypertension status in Afro-Caribbean men. *Journal of Hypertension*. 2019 Mar;37(3):546-554. PMID: 30234778; PubMed Central PMCID: PMC6355357.
96. Duan C, Talbott E, Brooks M, Broadwin R, Matthews K, **Barinas-Mitchell E**. Residential Exposure to PM_{2.5} and Ozone and Progression of Subclinical Atherosclerosis Among Women Transitioning through Menopause: The Study of Women's Health Across the Nation. *Journal of Women's Health (Larchmt)*. 2019 Jun;28(6):802-811. PMID: 30730252. PMCID: PMC6590715. (**Senior Author**)*
97. Mahajan H, Choo J, Masaki K, Fujiyoshi A, Guo J, Evans R, Shangquan S, Wilcox B, **Barinas-Mitchell E**, Kadota A, Miura K, Kuller L, Shin C, Ueshima H, Sekikawa A. Serum long-chain n-3 polyunsaturated fatty acids and aortic calcification in middle-aged men: The population-based cross-sectional ERA-JUMP study. *Nutr Metab Cardiovasc Dis*. 2019 Aug; 29(8): 837-846. PMID: 31151884. DOI: 10.1016/j.numecd.2019.04.011.
98. El Khoudary S, Chen X, Nasr A, Shields K, **Barinas-Mitchell E**, Janssen I, Everson-Rose S, Powell L, Matthews K. Greater Peri-Aortic fat Volume is Associated with Slower Gait Speed Later in Life in Women: the SWAN Cardiovascular Fat Ancillary Study. *J Gerontol A Biol Sci Med Sci*. 2019 Nov 13; 74(12): 1959-1964. PMID:30977813. PMCID: PMC6853654. [Available on 2020-04-12].
99. Stewart AL, **Barinas-Mitchell E**, Matthews KA, El Khoudary SR, Magnani JW, Jackson EA, Brooks MM. Social role-related stress and social role-related reward as related to subsequent subclinical cardiovascular disease in a longitudinal study of mid-life women: The Study of Women's Health Across the Nation. *Psychosom Med*. 2019 Nov/Dec; 81(9): 821-832. PMID: 31299023. PMCID: PMC6832794.
100. Wang D, Karvonen-Gutierrez CA, Jackson EA, Elliott MR, Appelhans BM, **Barinas-Mitchell E**, Bielak LF, Baylin A. Prospective associations between beverage intake during the midlife and subclinical carotid atherosclerosis: The Study of Women's Health Across the Nation. *PLoS One*. 2019 Jul 10;14(7):e0219301. PMID: 31291324. PMCID: PMC6620009.
101. Cortés YI, Catov JM, Brooks M, El Khoudary SR, Thurston RC, Matthews KA, Isasi CR, Jackson EA, **Barinas-Mitchell E**. Pregnancy-related events associated with subclinical cardiovascular disease burden in late midlife: SWAN. *Atherosclerosis*. 2019 Oct; 289:27-35. PMID: 31446211. PMCID: PMC6952268. (**Senior Author**)*
102. Wang D, Karvonen-Gutierrez CA, Jackson EA, Elliott MR, Appelhans BM, **Barinas-Mitchell E**, Bielak LF, Huang M-H, Baylin A. Western dietary pattern derived by multiple statistical methods is prospectively associated with subclinical carotid atherosclerosis in midlife women. *Journal of Nutrition*. 2020 Mar 1; 150(3): 579-591. PMID: 31687759. DOI: 10.1093/jn/nxz270.
103. Kuipers A, Wojczynski MK, **Barinas-Mitchell E**, Minster RL, Wang L, Feitosa MF, Kulminski A, Thyagarajan B, Lee JH, Province MA, Newman AB, Zmuda JM, Long-Life Family Study. Genome-wide Linkage Analysis of Carotid Artery Traits in Exceptionally Long-Lived Families. *Atherosclerosis*. 2019 Dec; 291: 19-26. PMID: 31634740. PMCID: PMC6899182. [Available on 2020-12-01].
104. Countouris ME, Holzman C, Althouse AD, Snyder GG, **Barinas-Mitchell E**, Reis SE, Catov J. Lactation And Maternal Subclinical Atherosclerosis Among Women With And Without A History Of Hypertensive Disorders Of Pregnancy. *J Womens Health (Larchmt)*. 2020 Jan 2. PMID: 31895649. DOI: 10.1089/jwh.2019.7863.
105. Thurston R, Wu M, Aizenstein H, Chang Y, **Barinas-Mitchell E**, Derby C, Maki P. Sleep Characteristics and White Matter Hyperintensities Among Midlife Women. *SLEEP*. 2019 Dec 21. PMID: 31863110. DOI: 10.1093/sleep/zsz298.
106. **Barinas-Mitchell E**, Duan C, Brooks M, El Khoudary SR, Thurston R, Matthews K, Jackson EA, Lewis TT, Derby CA. Cumulative CVD risk factor burden during the menopause transition and

- late midlife subclinical vascular disease: Does race/ethnicity matter? *JAHA*. 2020 Feb 18; 9(4):e013876. PMID: 32063114. PMCID: PMC7070180.
107. Cortés YI, **Barinas-Mitchell E**, Suder Egnot N, Bhasin S, Jasuja R, Santoro N, Thurston RC. Associations of endogenous sex hormones with carotid plaque burden and characteristics in midlife women. *JCEM*. 2020 Apr 1; 105(4). PMID: 31900485. PMCID: PMC7077951.
(**Postdoctoral mentor**)
108. Kuipers A, Miljkovic I, **Barinas-Mitchell E**, Nestlerode C, Cvejkus R, Wheeler V, Zhang Y, Zmuda J. Wnt Pathway Gene Expression is Associated with Arterial Stiffness. *JAHA*. 2020 Feb 4; 9(3):e014170. PMID: 32013702. PMCID: PMC7033870.
109. Samargandy S, Matthews K, Brooks M, **Barinas-Mitchell E**, Magnani J, Janssen I, Hollenberg S, El Khoudary S. Arterial Stiffness Accelerates within 1 Year of the Final Menstrual Period: the SWAN Heart Study. *Arterioscler Thromb Vasc Biol*. 2020 Apr; 40(4): 1001-1008. PMID: 31969013. PMCID: PMC711253.
110. Devaraj S, Stewart A, Baumann S, Elias TI, Hershey TB, **Barinas-Mitchell E**, Gary-Webb TL. Changes Over Time in Disparities in Health Behaviors and Outcomes by Race in Allegheny County: 2009 to 2015. *J Racial Ethn Health Disparities*. 2020 Jan 31. PMID:32006243. DOI: 10.1007/s40615-020-00705-x.

Under Review: Revise/Resubmit

111. Lewis T, Van Dyke M, Matthews K, **Barinas-Mitchell E**. Cumulative Midlife Loss And Carotid Atherosclerosis in African-American Women. *AJE*. (under review)
112. Brian Man; Chendi Cui; Xiao Zhang; Daisuke Sugiyama; **Emma Barinas-Mitchell**; Akira Sekikawa. The Effect of Soy Isoflavones on Arterial Stiffness: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. *EJON*. (under review)

Under Review

113. Lee S, Libman I, Hughan K, Kuk J, **Barinas-Mitchell E**, Chung H, Arslanian S. Effects of exercise modality on body composition and biomarkers of subclinical atherosclerosis in adolescents with obesity: A randomized clinical trial. *APNM*. (under review)
114. Shangguan S, Miura K, Willcox B, Guo J, Cui C, Mahajan H, Masaki K, Fabio A, **Barinas-Mitchell E**, Edmundowicz D, Kuller L, Ueshima H, Sekikawa A. Risk factors for the progression and incidence of aortic calcification among multi-ethnic middle-aged men. *American Heart Journal*. (under review)
115. Hinerman A, **Barinas-Mitchell EJM**, El Khoudary SR, Courcoulas AP, Wahed AS, King WC. Change in predicted 10-year and lifetime cardiovascular disease risk following Roux-en-Y gastric bypass: Results from a 7 year multicenter prospective cohort study. *SOARD*. (under review)
116. Taylor C, Kline CE, Rice TB, Duan C, Newman AB, **Barinas-Mitchell E**. Snoring Severity is Associated with Carotid Vascular Remodeling in Young Adults with Overweight and Obesity. *Sleep Health* (under review; **Senior Author**)*
117. Lertratanakul A, Wu P, Lee J, Dyer A, Pearce W, McPherson D, K Sutton-Tyrrell K*, Thompson T, **Barinas-Mitchell E**, Ramsey-Goldman R. Risk Factors for Changes in Carotid Intima Media Thickness and Carotid Plaque over Five Years in Women with Systemic Lupus Erythematosus. *Journal of Lupus Science & Medicine*. (under review)
118. Everson-Rose SA, **Barinas-Mitchell E**, El Khoudary SR et al. Adipokines and Subclinical Cardiovascular Disease in PostMenopausal Women: Study of Women's Health Across the Nation (SWAN). *JACC*. (under review)

2. Review Articles

1. Syed MA, **Barinas-Mitchell E**, Pietropaolo SL, Zhang YJ, Henderson TS, Kelley DE, Korytkowski MT, Donahue RP, Tracy RP, Trucco M, Kuller LH, Pietropaolo M. Is Type 2 diabetes a chronic

inflammatory/autoimmune disease? *Diabetes Nutrition and Metabolism* 2002 Apr; 15(2): 68-83. PMID: 12059095.

2. Cottam DR, Mattar SG, **Barinas-Mitchell E**, Eid G, Kuller L, Kelley DE, Schauer PR. The Chronic Inflammatory Hypothesis for the Morbidity Associated with Morbid Obesity: Implications and Effects of Weight Loss. *Obesity Surgery*. 2004 May; 14(5): 589-600. PMID: 15186624.
3. Sekikawa A, Willcox BJ, Usui T, Carr JJ, **Barinas-Mitchell EJ**, Masaki KH, Watanabe M, Tracy RP, Bertollet MH, Evans RW, Nishimura K, Sutton-Tyrrell K, Kuller LH, Miyamoto Y. Do differences in risk factors explain the lower rates of coronary heart disease in Japanese versus U.S. Women? *Journal of women's health*. 2013; 22(11): 966-977. PMID: 24073782.

3. Published Abstracts (selected)

1. **Barinas-Mitchell E**, LaPorte RE, Goldberg RB. The Incidence of Insulin-Dependent Diabetes Mellitus in Dade County, Florida: African and Spanish Heritage Populations, 1990-1994. *American Journal of Epidemiology* 1998;147(11):S72.
2. Pietropaolo M, **Barinas-Mitchell E**, Kuller LH, Trucco M. Is Type 2 diabetes a chronic inflammatory-autoimmune disease? *Diabetes* 1999, 48 (Suppl. 1):1903.
3. **Barinas-Mitchell E**, Edmundowicz D, Tracy R, Kuller L. The Association Between C-Reactive Protein and Coronary Calcification Is Moderated by LDL-Cholesterol and Central Adiposity in Postmenopausal Women. *Circulation* 2002;105(14).
4. **Barinas-Mitchell E**, Pietropaolo M, Pietropaolo S, Zhang Y-J, Henderson T, Kuller L. Racial and Ethnic Differences in the Prevalence of GAD65 Autoantibodies Among US Adults. *Diabetes* 2003; 52 (Suppl 1):A215.
5. **Barinas-Mitchell E**, Kuller L, Pietropaolo S, Zhang Y-J, Henderson T, Pietropaolo M. Diabetes Treatment in Older Individuals with Type 2 Diabetes and Evidence of Islet Cell Autoimmunity in the Cardiovascular Health Study. *Diabetes* 2004; 53 (Suppl 2):A235.
6. **Barinas-Mitchell E**, Kuller L, Pietropaolo S, Zhang Y-J, Henderson T, Pietropaolo M. Diabetes Treatment Outcome in Older Individuals with Diabetes and Evidence of Islet Cell Autoimmunity. *American Journal of Epidemiology* 2004;159(11):S61.
7. Julius O Asubonteng, **Emma J Barinas-Mitchell**, Stephen R Wisniewski, Faith M Selzer. Metabolic Syndrome and Common Carotid Artery Remodeling: Study of Women's Health Across the Nation. *Arterioscler Thromb Vasc Biol*. 2013;33:A245 (**Senior Author**)
8. **Barinas-Mitchell E**, Sutton-Tyrrell K, Bai, L El Khoudary SR, Asubonteng J, Thurston R, Derby C. Abstract MP54: Extent of Subclinical Atherosclerosis and Associations with Cardiovascular Disease Risk Factors Vary by Race/Ethnicity in Late Midlife Women: The Study of Women's Health Across the Nation. *Circulation*. 2013;127(suppl_12):AMP54-AMP54.
9. Nancy A Niemczyk, **Emma Barinas-Mitchell**, Janet M Catov, Candace K McClure, James M Roberts, Akira Sekikawa and Ping G Tepper. Maternal Vascular Changes during Pregnancy may Persist Postpartum. *Circulation* March 25, 2014, Volume 129, Issue Suppl 1. (**Senior Author**)
10. Mindy L Columbus, **Emma Barinas-Mitchell**, Belinda McQuaide, Lina Bai, Marnie Bertollet, Marina Bodomova, Daniel Edmundowicz, Beatriz Rodriguez, Bradley Wilcox, Chol Shin, Kamal Masaki and Akira Sekikawa. Associations Between Periaortic Vascular Adipose Tissue, Cardiometabolic Risk Factors and Aortic Calcification in a Multiethnic Cohort of Men From the ERA JUMP Study. *Circulation* March 10, 2015, Volume 131, Issue Suppl 1. (**Senior Author**)
11. Mansi Desai, Nancy Niemczyk, Janet Catov, Marnie Bertollet, Mindy Columbus, **Emma Barinas-Mitchell**. Structural and Functional Arterial Changes in Healthy Women Following Pregnancy. *Circulation*. March 1, 2016, Volume 133, Issue Suppl 1. (**Senior Author**)
12. Chunzhe Duan, Evelyn Talbott, Maria Brooks, Rachel Broadwin, Karen Matthews and **Emma Barinas-Mitchell**. 2016. Exposure to PM_{2.5} and Ozone and Progression of Subclinical Atherosclerosis among Women Transitioning through Menopause. In: Abstracts of the 2016 Epidemiology (ISEE). Abstract [O-091]. Research Triangle Park, NC:Environmental Health Perspectives; (**Senior Author**)

13. Cortés, Y.I., Catov, J., Brooks, M., Isasi C., Jackson, E., Harlow, S., Matthews, K., Thurston, R., **Barinas-Mitchell, E.** Reproductive factors associated with subclinical vascular measures at late midlife: SWAN. *Circulation*. 2017;135:AP316. **(Senior Author)**
14. Duan C, Broadwin R, Talbott EO, Brooks MM, Matthews KA, **Barinas-Mitchell E.** Early Exposure to PM2.5 and Ozone During the Menopausal Transition as Predictor of Subclinical Atherosclerosis in Late Midlife Women: the Study of Women's Health Across the Nation (SWAN). *Circulation*. March 2017, 135:AP067. **(Senior Author)**
15. Suder N, **Barinas-Mitchell E**, Allison M, Criqui M, Ix J, Jenny N, Wassel C. Higher Levels of CRP and IL-6 are Associated With Femoral Artery Plaque Presence, but Not Plaque Characteristics: The San Diego Population Study (SDPS). *Circulation*. 2017;135:AP043. **(Primary Mentor)**
16. Cortés, YI., Catov, J., Brooks, M., El Khoudary, SR., Thurston, R., Matthews, K., Isasi C., Jackson, E., **Barinas-Mitchell, E.** (November 2018). Pregnancy-related events associated with subclinical cardiovascular disease burden in late midlife: SWAN. American Heart Association Scientific Sessions, Chicago, IL. *Circulation*. 2018;138:A16238. (Moderated Poster: **senior author**)
17. Taylor C, Kline C, Duan C, **Barinas-Mitchell E.** Objectively Measured Snoring in Not Associated with Maladaptive Arterial Remodeling in Overweight and Obese Adults. AHA Epi/Lifestyle 2019. *Circulation*. 2019;139:AP416 (**senior author**).

4. Presentations (selected)

1. **Barinas-Mitchell E**, LaPorte RE, Goldberg RB. The Incidence of Insulin-Dependent Diabetes Mellitus in Dade County, Florida: African and Spanish Heritage Populations, 1990-1994. Society for Epidemiologic Research Annual Conference 1998, Chicago, IL June 1998. (Poster)
2. "Islet Cell Autoimmunity in Elderly Type 2 Diabetes Patients". The 39th Annual Conference on Cardiovascular Disease Epidemiology (AHA), Orlando, FL. NHLBI Cardiovascular Epidemiology, Biostatistics and Behavioral Medicine Trainee Session. March 24, 1999.
3. **Barinas-Mitchell E**, Edmundowicz D, Tracy R, Kuller L. The Association Between C-Reactive Protein and Coronary Calcification Is Moderated by LDL-Cholesterol and Central Adiposity in Postmenopausal Women. The 42nd Annual Conference on Cardiovascular Disease Epidemiology (AHA), Honolulu, HI, March 2002.
4. **Barinas-Mitchell E**, Pietropaolo M, Pietropaolo S, Zhang Y-J, Henderson T, Kuller L "Racial and Ethnic Differences in the Prevalence of Islet Cell Autoimmunity Among US Adults". Society for Epidemiologic Research Annual Conference, Atlanta, GA. June 13, 2003.
5. **Barinas-Mitchell E**, Kuller L, Pietropaolo S, Zhang Y-J, Henderson T, Pietropaolo M. Diabetes Treatment in Older Individuals with Type 2 Diabetes and Evidence of Islet Cell Autoimmunity in the Cardiovascular Health Study. American Diabetes Association Annual Scientific Sessions 2004.
6. **Barinas-Mitchell E**, Kuller L, Pietropaolo S, Zhang Y-J, Henderson T, Pietropaolo M. Diabetes Treatment Outcome in Older Individuals with Diabetes and Evidence of Islet Cell Autoimmunity. Society for Epidemiologic Research Annual Conference 2004.
7. **Barinas-Mitchell E**, Ye R, Mackey R, Sutton-Tyrrell K. Do the Effects of Obesity-Related Biomarkers on Arterial Stiffness Vary by Arterial Site in Overweight and Obese Young Adults? Joint Conference - 50th Cardiovascular Disease Epidemiology and Prevention - and - Nutrition, Physical Activity, and Metabolism 2010, San Francisco, CA. March 3, 2010. (Poster)
8. **Barinas-Mitchell E**, Bai, L El Khoudary SR, Asubonteng J, Thurston R, Sutton-Tyrrell K, Derby C. Extent of Subclinical Atherosclerosis and Associations with Cardiovascular Disease Risk Factors Vary By Race/Ethnicity in Late Midlife Women: The Study of Women's Health Across the Nation. AHA Epidemiology and Prevention/Nutrition, Physical Activity and Metabolism 2013 Scientific Sessions. March 19-22, 2013, New Orleans, LA. **(Moderated poster presentation)**
9. Stewart A, **Barinas-Mitchell E**, Matthews KA, Magnani JW, El Khoudary S, Jackson E, Brooks MM. Abstract MP56: Social Role Stress, Reward and the American Heart Association Life's Simple 7 in

- Midlife Women: The Study of Women's Health Across the Nation (SWAN). AHA Epi/Lifestyle 2018. March 20-23, 2018. New Orleans, LA. **(T32 mentor)**
10. Cortes YI, Parikh N, Allison MA, Criqui MH, Suder N, **Barinas-Mitchell E**, Wassel CL. Abstract P271: Women's Reproductive History and Peripheral Arterial Disease in Late Life: The San Diego Population Study. AHA Epi/Lifestyle 2018. March 20-23, 2018. New Orleans, LA. **(Post-doctoral mentor)**
 11. Taylor C, Duan C, Kline C, **Barinas-Mitchell E**. Abstract P365: Objectively Measured Snoring is Associated with Carotid Vascular Remodeling in Overweight and Obese Adults. AHA Epi/Lifestyle 2018. March 20-23, 2018. New Orleans, LA. (Poster: **senior author**)
 12. Suder Egnot N, **Barinas-Mitchell E**, Orchard T, Wassel C, Brooks M, Mulukutla S, Thurston R. Abstract P361: Inflammatory Burden May Partially Mediate the Relationship Between Everyday Discrimination and Carotid Plaque Height in Midlife Women. AHA Epi/Lifestyle 2018. March 20-23, 2018. New Orleans, LA. **(Presenter and Dissertation Advisor)**
 13. Columbus M, Matthews KA, El Khoudary S, Magnani J, Janssen I, Cortes Y, Sekikawa A, **Barinas-Mitchell E**. Late Midlife Women with Higher Arterial Stiffness are More Likely to Have Greater Plaque Burden: Study of Women's Health Across the Nation (SWAN) Pittsburgh Site. 2018 Society for Epidemiologic Research Annual Meeting. June 19-21, 2018, Bethesda, MD. (Poster; **senior author**)
 14. Cortés, YI., Catov, J., Brooks, M., El Khoudary, SR., Thurston, R., Matthews, K., Isasi C., Jackson, E., **Barinas-Mitchell, E.** (November 2018). Pregnancy-related events associated with subclinical cardiovascular disease burden in late midlife: SWAN. American Heart Association Scientific Sessions, Chicago, IL. (Moderated Poster: **senior author**).
 15. Taylor C, Kline C, Duan C, **Barinas-Mitchell E**. Objectively Measured Snoring in Not Associated with Maladaptive Arterial Remodeling in Overweight and Obese Adults. AHA Epi/Lifestyle 2019. March 5-8. Houston, TX. (Poster: **senior author**).
 16. CE Kline, MJ Lambiase, MB Conroy, MM Brooks, AM Kriska, **EJ Barinas-Mitchell**. Short Sleep Duration and Poor Sleep Quality Predict Blunted Weight Loss in a Behavioral Weight Loss Intervention. SLEEP 2020. June 13-17. Philadelphia, PA. (**senior author**; meeting canceled)

5. Other Publications

1. **Barinas-Mitchell EJM**, Davis NL, McGuire MT, Aaron DJ, LaPorte RE. Internet connectivity of State Health Department: United States, 1996. Science Communication 1997;19(2):164-175. doi:10.1177/1075547097019002004.
2. Aaron DJ, Sekikawa A, Libman IM, Iochida L, **Barinas-Mitchell E**, LaPorte RE. Telepreventive medicine. MD Computing. 1996 Jul-Aug; 13(4): 335-338. PMID: 8754242.

SERVICE

1. Service to School and University

Years	Committee	Position
2004	Ad Hoc Department of Epidemiology Assistant Professor Search Committee	Appointed member
2008	Ad Hoc Department of Biostatistics Associate Professor Search Committee	Appointed member
2008-2014	Epidemiology Preliminary Exam Committee	Appointed Member/Grader
2009	WPIC Research Committee	Contributing Faculty Reviewer

Years	Committee	Position
2010	Ad Hoc Department of Epidemiology Assistant Professor Search Committee- 2 positions	Appointed Member
2010	Ad Hoc Department of Epidemiology Assistant Professor Search Committee	Appointed Member
2010, 2011, 2019	GSPH Dean's Day – Faculty Juror	Juror for student posters
April 11, 2011-present	Annual School of Health Sciences Health Disparities Poster Competition – judge student abstracts/posters	Juror
December 2011	Reviewed AHA grant for Department of Epidemiology	Reviewer
May 16, 2013	8 th Annual Data and Dine Symposium Poster Session, University of Pittsburgh Postdoctoral Association	Poster Juror
Fall 2010-2016 Fall 2012-2012 Fall 2012-2014	Faculty Diversity Committee	Department Representative Co-chair Chair
Fall 2010-2014	GSPH Council	Voting Member
2012-2013	Diversity Strategic Planning Committee (ad hoc)	Member
April 2013- 2016	Annual School of Health Sciences Health Disparities Poster Competition	Co-chair
2014-2018	Department of Epidemiology Admissions Committee	Member
2014-Present	GSPH Health Equity Certificate Committee	Faculty Member
January 2015-2017, 2019, 2020	Judge	AHA Fellow's Research Day, Great Rivers Affiliate, University of Pittsburgh
December 2018, 2019	Abstract Reviewer	
March 2016	Center for Health Equity (CHE) Faculty & Community Mini- Grant	Grant Reviewer
Spring 2018	Ad Hoc Epidemiology Assistant Professor Search Committee	Appointed Member
Fall 2016- present	Cardiovascular Behavioral Medicine T-32	Faculty Mentor
Fall 2018-present	Department Curriculum Committee: DrPH and PhD Subcommittee and MPH and MS Subcommittee	Member
January 14, 2020	Beinecke Scholarship Program 2020 Applicant Selection Committee	Review and select University applicant
February 14, 2020	Career Panel for Biology Undergraduates	Faculty Panel Member

Years	Committee	Position
May 2020	Department of Psychiatry Research Review Committee	R01 Grant Proposal Reviewer

2. Service to Field of Scholarship

a. Editorial Boards, Editorships

Date	Position	Organization
NA		

b. Manuscript and Other Document/Publication Review

Dates	Journal Title
2001	Psychosomatic Medicine
2002	Heart and Vessels, Journal of the American College of Cardiology; Circulation
2003	Journal of Clinical Endocrinology and Metabolism; Arteriosclerosis, Thrombosis and Vascular Biology
2007	Annals of Epidemiology; Circulation
2009	Journal of the American College of Nutrition; Annals of Epidemiology
2010	International Journal of Cardiology
2011-2012	Atherosclerosis
2011-2015	Pediatric Diabetes
2013	Neuroradiology; Journal of Women's Health
November 2013	Reviewed prospectus on early vascular aging for Elsevier
2014	Journal of the American Geriatrics Society
2015-2017	Journal of Women's Health
2016	Vascular Medicine, BioMed International Journal
2017	PLOS ONE, Environmental Health, Journal of Epidemiology
2018	PLOS ONE, Women's Health Issues
2019	Archives of Medical Research, PLOS Medicine, PLOS ONE, Journal of Clinical Medicine, Obesity
2020	Obesity, PLOS ONE

c. Study Sections, Review Panels, and Related Advisory Boards

Date	Position	Organization and Nature of Activity
2004-2005	Member	Ancillary Studies Committee for NIDDK funded Longitudinal Assessment of Bariatric Surgery (LABS) study - Assisted with development of ancillary study guidelines and reviewed ancillary study proposals
2004-2005	Member	LABS Publication and Presentation (P&P) Committee – Assisted with development of P&P guidelines
July 2006	Manuscript reviewer	NHLBI funded Cardiovascular Health Study P&P Committee
June 2008-2012	Member	SWAN Carotid Ultrasound Committee
2012-Present	Member	SWAN Cardiovascular Committee
2014-2018	Chair	SWAN Ultrasound Committee
2014-Present	Member	LLFS Field Operations Committee
April 2017	Reviewer	University of Pittsburgh Central Research Development Funds. Small Grants Program
January 23, 2015 January 22, 2016 January 13, 2017 January 2019	Judge	AHA Fellow's Research Day, Great Rivers Affiliate, University of Pittsburgh
September 13, 2018	Reviewer	NHLBI Special Emphasis Panel for renewal applications; the PRIDE program, "Programs to Increase Diversity Among Individuals Engaged in Health-Related Research"

d. Leadership in Scholarly and Professional Organizations and Honorary Societies

Date	Position	Organization
February 2011	Annual Meeting Abstract Reviewer	3rd North American Congress of Epidemiology
February 2012	Annual Meeting Abstract Reviewer	Society for Epidemiologic Research
March 2018	Annual Meeting Abstract Reviewer	American Public Health Association
July 2018	Annual Meeting Scientific Program- Oral Session Descriptions- Writer	American Public Health Association

3. Service for Practice and Policy-Making, including Consultantships

a. Governmental Organizations

Date Position Type of Service and/or Agency

b. Non-Governmental and Community-Based Organizations

Date	Position	Type of Service and/or Organization
October 8, 1998	Presenter	Healthy Women Study update for study participants entitled "Endothelial Function in the Healthy Women Study"
1999-2003	Speaker for the Women's Health Speaker's Bureau University of Pittsburgh, Pittsburgh, PA	A community-based presentation on the risk factors, prevention and treatment of heart disease in women.
July, 2007-2015	Mentor	Participated in the Shadow Day Experience for 1-2 students in the University of Pittsburgh Health Career Scholars Academy; annually
March 2017, March 2019	Panelist on Health Sciences Career Exploration Panel	Health Sciences Career Opportunities Program for High School Students

c. Non-Professional Service

Year(s)	Position and Organization	Type of Service
2006-2008	Pittsburgh Cares Volunteer	Volunteer for various community service nutrition related and environmental health programs
2015	Epi Takes Back	Food Bank Volunteer