

## **CURRICULUM VITAE**

NAME: Emma J.M. Barinas-Mitchell  
BUSINESS ADDRESS: Department of Epidemiology  
Graduate School of Public Health  
University of Pittsburgh  
130 DeSoto Street  
Pittsburgh, PA 15261  
(412) 624-3478  
(412) 383-3118 (Fax)  
ejb4@pitt.edu

### **EDUCATION AND TRAINING**

#### **Undergraduate**

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

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

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

### **HONORS**

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	NRSA Pre-doctoral Fellowship National Institutes of Health
1998	Delta Omega National Honors Society
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**

<b>Years Taught</b>	<b>Course Number: Title</b>	<b>Hours of Lecture, credits Average Enrollment</b>	<b>Role in course Primary/Coordinator</b>
2007 - 2012	<u>EPIDEM 2152:</u> Student Workshop in CVD Epidemiology: <i>Professional Development (Spring 2008)</i> <i>Sample Size (Fall 2008)</i> <i>Reproducibility Analysis (Spring 2007, 2012)</i> <i>Subclinical CVD Overview (Fall 2009, 2011)</i> <i>Repeated Measures Analysis (Spring, 2010)</i> <i>Basics of Mediation Analysis (Fall 2010)</i> <i>Manuscript Writing (Spring 2011)</i>	15 hours 1 credit 8-12 students	Co- Instructor
2012-current	<u>EPIDEM 2152:</u> Student Workshop in CVD Epidemiology: <i>Professional Development (Fall 2012, Spring 2017)</i> <i>Introduction to Meta-Analyses (Spring 2013)</i> <i>Manuscript Writing Multi-centered Studies (Fall 2013)</i> <i>Manuscript Reviews (Spring 2014)</i> <i>Subclinical CVD Overview (Fall 2014, Fall 2017)</i> <i>Subclinical CVD Independent Projects (Spring 2015)</i> <i>Introduction to Mediation Analysis (Spring 2016)</i> <i>Writing an AHA Mentored Grant (Fall 2016)</i>	15 hours 1 credit 8-12 students	Primary Instructor

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

<b>Date(s)</b>	<b>Type of Teaching</b>	<b>Title</b>
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	Subclinical Cardiovascular Disease Journal Club

<b>Date(s)</b>	<b>Type of Teaching</b>	<b>Title</b>
January 2011-2018	Lecture, EPIDEM 2150:Epidemiology of Cardiovascular Diseases	Overview of Subclinical Cardiovascular Disease Measures
September 25, 2015 September 20, 2017	Lecture, BCHS 2526 Health Equity Research Methods	Assessment/Observation: Cohort Studies
January 6, 2017	Lecture, CAPH Epidemiology of Aging Workshop	Overview of T-32 Cardiovascular Epidemiology Training Program

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

<b>Name of Student</b>	<b>Degree Awarded, Year</b>	<b>Type of Document and Title</b>	<b>Notes</b>
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 Swiltaski	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
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, 2014	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
Mansi Patel	MPH, 2015	Vascular Remodeling Postpartum	Enrolled Fall 2013, Academic/Research Advisor

<b>Name of Student</b>	<b>Degree Awarded, Year</b>	<b>Type of Document and Title</b>	<b>Notes</b>
Haidong Feng, MS	MPH, 2017	Cost-effectiveness Analysis of Out-of-hospital Cardiac Arrest Management Strategies	Enrolled Fall 2015 Academic Advisor Essay reader
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
<b>Current Students:</b>			
Mindy Columbus, MPH	PhD candidate	Predictors of arterial calcification in midlife adults	Enrolled Fall 2006 Academic Advisor Research Advisor
Monica Heinrich	MPH candidate	Cyber dating abuse perpetration: evolving methods of adolescent relationship abuse expression through technology	Enrolled Fall 2016 Academic Advisor
Siting Chen	MPH candidate	TBD	Enrolled Fall 2017 Research Advisor

**d. Service on Masters or Doctoral Committees**

<b>Dates Served</b>	<b>Name of Student</b>	<b>Degree Awarded</b>	<b>Title of Dissertation/Essay</b>
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
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

<b>Dates Served</b>	<b>Name of Student</b>	<b>Degree Awarded</b>	<b>Title of Dissertation/Essay</b>
2012- 2013	Andrew Althouse	PhD	Peripheral Arterial Disease In T2DM (BARI-2D)
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
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
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

**Current Students:**

2016- present	Andrea Stewart	DrPH	Role stress and rewards and CVD risk in midlife women
2017-present	Saad Samargandy	PhD	Cardiovascular fat and other predictors of subclinical atherosclerosis progression

**e. Service on Comprehensive or Qualifying Examination Committees**

<b>Dates Served</b>	<b>Student Population</b>	<b>Type of Exam (Qualifying/Comprehensive)</b>
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

<b>Dates Served</b>	<b>Student Population</b>	<b>Type of Exam</b> (Qualifying/Comprehensive)
2017	2 PhD, 1 DrPH Epidemiology	Comprehensive Exam
2018	1 PhD Epidemiology	Comprehensive Exam

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

2013-2014	Allison Kuipers	Supervising SCD journal club coordinator
2014-2015	Will Fisher	Supervising SCD journal club coordinator
2015- present	Yamnia Cortes	Research and T32 mentor,

**g. Mentoring of Graduate Students in Field Placements**

<b>Dates</b>	<b>Name of Student</b>	<b>Degree/Program Description</b>	<b>Field Site</b>
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
Fall 2011-2014	Jessica White	PHD/CVD Training Grant/Subclinical CVD Testing, Data Management and Analyses	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 Mentor, Subclinical CVD Data Management and Analyses	URL
2016-current	Christy Taylor	MD Student, Dean's Summer Research Program, Scholarly Project Faculty Mentor	URL

**d. Other Teaching and Training**

<b>Dates</b>	<b>Teaching Activity</b>	<b>Program/Description</b>
Spring 1995	Teaching Assistant	EPIDEM 2170: Epidemiology of Selected Chronic Diseases
April 2007 August 2009, 2015 March 2011 May 2011 2015-2016	Carotid IMT Research Methodology Training	Tobago Family Health Study SWAN Study OAB study POUCH moms study LLFS Study
May 2011	Mentoring	Mentored Marquis Hawkins, CVD Post-doctoral trainee, on submission of CAPH Pilot Grant
Summer 2012 Summer 2013 Summer 2014 Summer 2015	Faculty Mentor for various community-based programs	Bridging the Gaps Program: Katie Macioce, Jesabel Rivera Jeska Hayes, Elise Gamertsfelder Maria Thurner-Diaz, Maria Fetterolf Alibek Mereke, Kali Stull
Spring 2012 Fall 2012 Spring 2013 Fall 2013 Spring 2014 Fall 2014 Fall 2015, Spring 2016 Fall 2016, Spring 2017	Teaching Assistant Mentoring for EPIDEM 2152	Nancy Niemczyk Marquis Hawkins (post-doc) Andrew Althouse Jessica White Julius Asubonteng Mindy Columbus Carrie Hanley Platt, Vivien Huang Natalie Suder, Yamnia Cortes
Spring 2015	Introduction to Vascular Measures in Research Setting (Independent Projects for EPIDEM 2152) – Faculty Mentor	Natalie Suder (reading carotid plaque images) Will Fisher (reading endothelial function tests) Vivian Huang (carotid IMT/PWV data analysis/interpretation)
Spring 2015 (2) Spring 2016 (3) Spring 2017 (4) Spring 2018 (2)	PUBHT 2011 Project Mentor	Mentoring Epidemiology Students on class project for Essentials of Public Health Course

## 2. Research and Training

### a. Grants and Contracts Received

#### Principal Investigator

Current Research Support – N/A

#### Past

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Annual Direct Costs</b>	<b>% Effort</b>
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%

**Co-Investigator**

**Current Research Support**

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Annual Direct Costs</b>	<b>% Effort</b>
2014-2019	U01 AG023744-09 Multicenter Study on Exceptional Survival in Families	NIA	\$946,799	10%
2014-2019	AGO12553 Study of Women's Health Across the Nations (SWAN) V – Coordinating Center	NIA	\$1,939,135	15%
2015-2019	R01 HL122648 Pediatric Depression and Subsequent Cardiac Risk Factors	NHLBI	\$524,335	2.5%
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%
2017-2021	R01 AR070898 Social Stressors and Atherosclerosis in Women with Lupus	NIAMS	\$4,513	5%
2017-2019	R01 HL130471 Expectations of Discrimination and CVD Risk in Women	NHLBI	\$22,824	5%

**Co-Investigator**

**Past Research Support**

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Annual Direct Costs</b>	<b>% Effort</b>
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 Longitudinal Assessment of Bariatric Surgery	NIDDK	\$293,393	50%
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	NIA	\$1,484,286	20%

	Study of Women's Health Across the Nations (SWAN) IV – Coordinating Center R01 HL103835 Preterm Delivery and Maternal CVD Risk	NHLBI	\$94,433	10%
2010-2014				
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%
2008-2017	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%

**b. Invited Lectureships and Major Seminars Related to Your Research**

<b>Date</b>	<b>Title of Presentation</b>	<b>Venue</b>
March 18, 1999	Is type II diabetes an inflammatory-autoimmune disease?	72 <sup>nd</sup> 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

<b>Date</b>	<b>Title of Presentation</b>	<b>Venue</b>
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, 2017	Racial/ethnic differences in cumulative CVD risk factors as predictors of subclinical vascular disease in mid-life women	SWAN Steering Committee Meeting
April 3, 2017	Markers of Vascular Aging	University of Pittsburgh Cardiovascular Epidemiology Conference, CVD Imaging: Workshop

### c. Other Research and Training Activities

<b>Date</b>	<b>Position</b>	<b>Description of Activity</b>
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
Spring 2017	Faculty Mentor	Grant writing group for Aging and CVD training program early career investigators
May 2017 – April 2018	Participant	Career Coaching as part of the Professional Mentoring Skills Enhancing Diversity (PROMISED) program
4/21/2018	Participant	American Statistical Society Short Course: Methods of Risk Prediction for Competing Events
6/11 – 6/15/2018	Participant	2018 Summer Short Course on Causal Discovery from Biomedical Data, Carnegie Mellon University

## PUBLICATIONS

### 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. **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.
4. 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.
5. 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.
6. 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.
7. **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.
8. 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.
9. **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.
10. 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.
11. **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.
12. 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.
13. **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.

14. 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.
15. 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.
16. 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.
17. 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.
18. Libman IM, **Barinas-Mitchell E**, Marcovina S, Bacha F, Hannon T, Tfayli H, Lee SJ, Bansal S, Robertson R, Arslanian S.  $\beta$ -cell Autoimmunity in Overweight Non-Diabetic Youth: Any Implications? *Pediatric Diabetes*. 2011 May; 12(3 Pt 2): 207-11. PMID: 21518410.
19. 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.
20. 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.
21. 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
22. 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.
23. 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
24. 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.

25. 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
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93. 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 (Accepted)

\*Designates senior-authorship (n=4)

## 2. Books and Book Chapters - NA

## 3. Published Proceedings - NA

## 4. Invited Articles - NA

## 5. 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.

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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.

## 6. Published Abstracts

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. 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**)
9. 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**)
10. 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**)

11. Chunzhe Duan, Evelyn Talbott, Maria Brooks, Rachel Broadwin, Karen Matthews and **Emma Barinas-Mitchell**. 2016. Exposure to PM<sub>2.5</sub> 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)**
12. 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)**
13. Duan C, Broadwin R, Talbott EO, Brooks MM, Matthews KA, **Barinas-Mitchell E.** Early Exposure to PM<sub>2.5</sub> 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)**
14. 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)**

## 7. Presentations

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 39<sup>th</sup> 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 42<sup>nd</sup> 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. 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)

## 8. Non-Print Media - NA

## 9. Other Publications

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.

## 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
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
April 8, 2011	GSPH Dean’s Day 2011- judge student posters	Juror
April 11, 2011 April 2012	Annual School of Health Sciences Health Disparities Poster Competition – judge student posters	Juror
December 2011	Reviewed AHA grant for Department of Epidemiology	Reviewer



<b>Years</b>	<b>Committee</b>	<b>Position</b>
May 16, 2013	8 <sup>th</sup> Annual Data and Dine Symposium Poster Session, University of Pittsburgh Postdoctoral Association	Poster Juror
Fall 2010-2014	GSPH Council	Voting Member
2012-2013	Diversity Strategic Planning Committee (ad hoc)	Member
April 2013	Annual School of Health Sciences Health	Co-chair, Juror
April 2014	Disparities Poster Competition – help organize	
April 2015	event and judge student posters	
April 2016		
2014-Present	Pitt Public Health Health Equity Certificate Committee	Member
January 23, 2015	Judge	AHA Fellow's Research Day, Great Rivers Affiliate, University of Pittsburgh
January 22, 2016		
January 13, 2017		
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

## 2. Service to Field of Scholarship

### a. Editorial Boards, Editorships

<b>Date</b>	<b>Position</b>	<b>Organization</b>
NA		

### b. Manuscript and Other Document/Publication Review

<b>Dates</b>	<b>Journal Title</b>
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

<b>Dates</b>	<b>Journal Title</b>
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

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

<b>Date</b>	<b>Position</b>	<b>Organization and Nature of Activity</b>
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
2010	Juror	GSPH Dean's Day 2010 – Reviewed abstracts submitted and judged poster/oral presentations
February 2011	Reviewer	3 <sup>rd</sup> North American Congress of Epidemiology – Reviewed abstracts in Cardiovascular category for 2011 international meeting
February 2012	Reviewer	45 <sup>th</sup> Annual Society for Epidemiologic Research – Reviewed abstracts in Cardiovascular category for 2012 meeting
2012-Present	Member	SWAN Cardiovascular Committee
2014-Present	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	Judge	AHA Fellow's Research Day, Great Rivers Affiliate, University of Pittsburgh
March 2018	Reviewer	APHA's 2018 Annual Meeting- CVD abstracts reviewer

**d. Leadership in Scholarly and Professional Organizations and Honorary Societies**

<b>Date</b>	<b>Position</b>	<b>Organization</b>
NA		

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

**a. Governmental Organizations**

<b>Date</b>	<b>Position</b>	<b>Type of Service and/or Agency</b>
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**b. Non-Governmental and Community-Based Organizations**

<b>Date</b>	<b>Position</b>	<b>Type of Service and/or Organization</b>
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	Panelist on Health Sciences Career Exploration Panel	Health Sciences Career Opportunities Program for High School Students

**c. Non-Professional Service**

<b>Year(s)</b>	<b>Position and Organization</b>	<b>Type of Service</b>
2008-2012	Team Manager Dynamo Youth Soccer Travel League Team	Organize/manage various aspect of team activities
2006-2008	Pittsburgh Cares Volunteer	Volunteer for various community service nutrition related and environmental health programs
2015	Epi Takes Back	Food Bank Volunteer