

November 23, 2018

**CURRICULUM VITAE**  
**Paul Muntner, PhD MHS, FASH FAHA**

**ADDRESS**

Office Address      Department of Epidemiology  
University of Alabama at Birmingham  
1665 University Boulevard, Suite 140J  
Birmingham, AL

Mail Address        Department of Epidemiology  
University of Alabama at Birmingham  
RPHB 140J  
1720 2<sup>nd</sup> Ave. South  
Birmingham, AL 35294-0022

Office Telephone    (205) 975-8077  
E-mail                [pmuntner@uab.edu](mailto:pmuntner@uab.edu)

**EDUCATION**

B.S. (Electrical Engineering),    May 1991  
University of Rochester  
Rochester, New York

Master of Health Sciences (Biostatistics),    May 1999  
The Johns Hopkins University School of Hygiene and Public Health  
Baltimore, Maryland

Doctor of Philosophy (Epidemiology),    May 2001  
The Johns Hopkins University School of Hygiene and Public Health  
Baltimore, Maryland

**APPOINTMENTS**

October 2000 – June 2005  
Assistant Professor of Epidemiology (Tenure Track)  
Department of Epidemiology  
Tulane University School of Public Health  
and Tropical Medicine  
New Orleans, Louisiana

July 2002 – June 2005

Assistant Professor of Medicine  
Department of Medicine  
Tulane University School of Medicine  
New Orleans, Louisiana

July 2002 - February 2007

Member  
Tulane University Hypertension Renal Center of Excellence

July 2005 - February 2007

Associate Professor of Epidemiology with Tenure  
Department of Epidemiology  
Tulane University School of Public Health  
and Tropical Medicine  
New Orleans, Louisiana

July 2005 - February 2007

Associate Professor of Medicine  
Department of Medicine  
Tulane University School of Medicine  
New Orleans, Louisiana

May 2003 – February 2007

Co-director, Office of Health Research  
Department of Epidemiology  
Tulane University School of Public Health  
and Tropical Medicine  
New Orleans, Louisiana

March 2007 – March 2009

Associate Professor  
Department of Community and Preventive Medicine  
Mount Sinai School of Medicine  
New York, New York

March 2007 – March 2009

Co-director, Chronic Disease Epidemiology  
Institute for Epidemiology, Biostatistics, and Prevention  
Mount Sinai School of Medicine  
New York, New York

March 2007 – March 2009

Adjunct Associate Professor  
Division of Nephrology  
Department of Medicine  
Mount Sinai School of Medicine  
New York, New York

April 2009 –

Professor  
Department of Epidemiology  
University of Alabama at Birmingham  
Birmingham, AL

April 2009 –

Adjunct Professor  
Division of Nephrology  
Department of Medicine  
University of Alabama at Birmingham  
Birmingham, AL

October 2011 – September 2014

PhD Program Director  
Division of Epidemiology  
University of Alabama at Birmingham  
Birmingham, AL

March 2013 –

Co-director, Pharmacoepidemiology and Economics  
Research (PEER) Unit  
University of Alabama at Birmingham  
Birmingham, AL

April 2014 –

Vice Chair for Faculty Affairs  
Department of Epidemiology  
University of Alabama at Birmingham  
Birmingham, AL

December 2014 –

Director  
Lister Hill Center for Health Policy  
University of Alabama at Birmingham  
Birmingham, AL

March 2018 –

Adjunct Investigator  
Kaiser Permanente Southern California  
Pasadena, CA

May 2018 –

Associate Dean for Research  
School of Public Health  
University of Alabama at Birmingham  
Birmingham, AL

## **HONORS AND AWARDS**

1997 – 2000 NIH Training Grant in Cardiovascular Disease Epidemiology  
Johns Hopkins School of Hygiene and Public Health  
Baltimore, Maryland

1999 Jean Coombs Outstanding Student Research Award  
Johns Hopkins School of Hygiene and Public Health  
Baltimore, Maryland

2005 Sandra Dougherty Junior Investigator - Finalist  
American Heart Association  
Washington, D.C.

2007 Mid-Career Professional Development Seminar Travel Grant  
American Society of Nephrology  
San Francisco, California

2012 Tinsley Harrison Award for Best Original Research  
Southern Society for Clinical Investigation  
New Orleans, LA

2012 Elected to the Academy for Behavioral Medicine Research

2013 Elected member of the Southern Society of Clinical Investigation

2014 University of Alabama at Birmingham President's Award for Excellence in Teaching - Finalist

2015 University of Alabama at Birmingham Graduate School Dean's Award for Mentoring

- 2015 University of Alabama at Birmingham President's Award for Excellence in Teaching
- 2015 Elected to the Faculty of the American Society of Hypertension (FASH)
- 2017 Elected to the Council for the Southern Society for Clinical Investigation
- 2017 Elected to the Faculty of the American Heart Association (FAHA)

### **EDITORIAL BOARDS**

- January 2007 - Associate Editor  
American Journal of Kidney Diseases
- March 2013 - Associate Editor  
American Journal of Cardiology
- October 2013 – 2017 Section Editor  
“Public Health approaches to Prevent Hypertension”  
Current Hypertension Reports
- January 2015 - 2017 Associate Editor  
Journal of the American Society of Hypertension
- January 2016 - Editorial Board Member  
Journal of Hypertension
- July 2017 - Deputy Editor  
Journal of the American Society of Hypertension

### **GUIDELINE COMMITTEES**

- 2014 - American College of Cardiology/American Heart Association Guideline for the Management of Hypertension

### **SCIENTIFIC COMMITTEE MEMBERSHIP**

- 2017 - National Heart Lung and Blood Institute Working Group on Blood Pressure Assessment, Co-chair
- 2017 - Kidney Disease: Improving Global Outcomes (KDIGO), Controversies Conference on Blood Pressure in CKD, Participant
- 2016 - American Heart Association Scientific Statement on the Measurement of

Blood pressure, Chair  
 2016 - 2017 American Diabetes Association, Diabetes and Hypertension Position Statement, Writing Committee Member  
 2015 - American Heart Association Statistics Committee, Vice Chair  
 2015-2015 National Heart Lung and Blood Institute, Working Group on Research Needs to Improve Hypertension Treatment and Control in African Americans, Member.  
 2014 - 2016 ALLHAT Steering Committee, Member  
 2013 - 2015 American Heart Association Statistics Committee, Member  
 2013 - 2016 ALLHAT Awareness & ALLHAT-Related Studies Committee, Member  
 2013 - 2016 ALLHAT Renal Working Group, Member  
 2014 - United States Renal Data System External Expert Panel, Member  
 2013 - American Heart Association Metrics Task Force, Member  
 2013 - 2016 American Heart Association National Research Committee, Member  
 2013 - 2015 American Heart Association Peer Review Sub-committee, Member  
 2011- 2013 American Society of Nephrology Chronic Kidney Disease Awareness Committee, Member

## **DATA SAFETY MONITORING BOARDS**

2017-present Pragmatic Trial Comparing Telehealth Care and Optimized Clinic-Based Care for Uncontrolled High Blood Pressure  
 ClinicalTrials.gov Identifier: NCT02996565

2014-present Comparison of Depression Identification After Acute Coronary Syndrome: Quality of Life and Cost Outcomes (CODIACSQoL)  
 ClinicalTrials.gov Identifier: NCT01993017

2014-present Chair, Simultaneous Risk Factor Control Using Telehealth to sLOw Progression of Diabetic Kidney Disease (STOP-DKD),  
 ClinicalTrials.gov Identifier: NCT01829256

2010-2014 Chair, Measuring Adherence to Control Hypertension (MATCH)  
 ClinicalTrials.gov Identifier: NCT01257347

## **JOURNAL REVIEWER**

American Journal of Cardiology  
 American Journal of Epidemiology  
 American Journal of Hypertension  
 American Journal of Kidney Diseases

American Journal of Medical Sciences  
Annals of Epidemiology  
Annals of Internal Medicine  
Archives of Internal Medicine  
Atherosclerosis  
Canadian Medical Association Journal  
Circulation  
Clinical Biochemistry  
Clinical Journal of the American Society of Nephrology  
Diabetes Care  
Environmental Research  
Epidemiology  
Hypertension  
Journal of the American College of Cardiology  
Journal of the American Medical Association  
Journal of the American Society of Nephrology  
Journal of Clinical Hypertension  
Journal of Human Hypertension  
Journal of Occupational and Environmental Medicine  
Journal of Hypertension  
Journal of Pediatrics  
Journal of Urban Health  
Kidney International  
Nephrology, Dialysis, and Transplantation  
Pediatrics  
Stroke

## **ABSTRACT REVIEW**

2007 - American Society of Nephrology – Renal Week 2007  
2007 – American Heart Association Council for High Blood Pressure Research  
2008 – American Heart Association – Scientific Sessions 2008  
2009 – American Heart Association – Scientific Sessions 2009  
2009 – American Heart Association – Epidemiology Council 2010  
2010 – American Society of Nephrology – Renal Week 2010  
2011 – American Society of Nephrology – Renal Week 2011 – Chair of the Outcomes Review Section

## **ADVISORY PANELS**

AMGEN - Aranesp® Medical Advisory Board meeting	December 2009
AMGEN - Aranesp® Medical Advisory Board meeting	April 2011

American Society of Nephrology's Chronic Kidney Disease Advisory Group	2010 – 2012
AMGEN – AMG 145 Pharmacovigilance Advisory Board meeting	August 2013
AMGEN – Observational Research Methods Council	January 2017

## **GRANT REVIEW COMMITTEES**

### National Institutes of Health

- RFA-HL-04-007 - Special Emphasis Panel - Hypertension Control in African-Americans (April 2004)
- PAR-04-065: Research Grants for Clinical Studies of Kidney Diseases (July 2005)
- PAR-06-112: Pilot and Feasibility Clinical Research Grants in Kidney or Urologic Diseases (July 2006)
- RFA-DK-12-508: Limited Competition for the Continuation of the Chronic Renal Insufficiency Cohort (CRIC) Study (U01). (January 20013)
- PAR-12-265: Chronic Renal Insufficiency Cohort (CRIC) Ancillary Studies (September 20013)

### Veteran's Administration

- Health Services Research and Development Scientific Merit Review Board. (August 2005 - present)

### American Heart Association

- BSEP 1 - Behavioral Science, Epidemiology & Prevention 1 Study Group (April 2006 – April 2007)

### American Heart Association

- Pharmaceutical Round Table Outcomes Research Center grants (May-June 2008)

### American Heart Association

- Genomics and Outcomes grants (April 2010, October 2010, March 2013, March 2014)

## **ACADEMIC SERVICE**

2004 - 2007 Epidemiology Representative to the Nominating Committee



2004 -2005 Tulane University Representative to the Association of Schools of Public Health Epidemiology Work Group

2004 - 2007 Tulane University School of Public Health and Tropical Medicine Doctoral Education Committee

2009 - University of Alabama at Birmingham, Department of Epidemiology, Curriculum Committee

2009 - University of Alabama at Birmingham, Department of Epidemiology, Doctoral Admissions Committee

2010 - University of Alabama at Birmingham, Department of Epidemiology, Mentoring Committee

2010 - 2013 University of Alabama at Birmingham, School of Public Health, Faculty Affairs Committee

2011 - 2014 University of Alabama at Birmingham, School of Public Health, Doctoral Committee Chair

2013 - University of Alabama at Birmingham, Co-director, Pharmacoepidemiology and Economics Research Unit

## LEADERSHIP TRAINING

2011-2012 University of Alabama BLAZE Leadership Academy

2013-2014 University of Alabama Healthcare Leadership Academy

## ADVISING

### Faculty mentoring

Mentee	Years	Grant title	Current position
Karen DeSalvo, MD MPH	2005-2008	Determining the merit of self-rated health for risk prediction (K23)	Acting Assistant Secretary of US Health and Human Services
Devin Mann, MD MPH	2007-2009	Diabetes risk communication tool to improve lifestyle behaviors (K23)	Associate Professor, Boston University
Greer Burkholder, MD	2014 -	Enhancing information, motivation, and behavioral skills to promote antihypertensive medication adherence among persons living with HIV (K23)	Assistant Professor, University of Alabama at Birmingham
Jeffrey Lebensburger, MD	2014 -	Chronobiology and chronopharmacology to prevent sickle cell nephropathy (K23)	Assistant Professor, University of Alabama at Birmingham

C. Barrett Bowling MD MPH	2012-2014	Grants for Early Medical and Surgical Subspecialists Transitioning to Aging Research (GEMSSTAR) (R03)	Assistant Professor, Emory University
April Carson, PhD	2013-	The role of nontraditional glycemic markers in diabetes and albuminuria (K01)	Associate Professor, University of Alabama at Birmingham
Emily Levitan, PhD	2011-	Identification of silent myocardial infarctions (K12)	Associate Professor, University of Alabama at Birmingham
Marwah Abdallah, MD	2014-	Incorporation of a Hypertension Working Group into the Jackson Heart Study (Diversity supplement)	Assistant Professor, Columbia University
Adam Bress, PharmD	2015-	Genetic Ancestry and Response to Antihypertensive Medication (K01)	Assistant Professor, University of Utah
Gabriela Oates, PhD	2016-	Adherence among patients with COPD	Assistant Professor, University of Alabama at Birmingham

### **Post-doctoral fellow mentoring**

#### **Tulane University**

Rachel Wildman

#### **Mount Sinai School of Medicine**

Usman Baber

Louai Razzouk

#### **University of Alabama at Birmingham**

Shia Kent

Gabriel Tajeu

Matthew Loop

Corina Serban

John N. Booth III

#### **Columbia University**

Keith Diaz

## **PhD grant mentoring**

- Samantha Bromfield - Incorporation of a Hypertension Working Group into the Jackson Heart Study (NHLBI Diversity supplement)
- Karen Albright – Racial Differences in Causes and Consequences of Medication Adherence (American Heart Association Mentored Clinical & Population Research Award)
- John N. Booth III – Racial disparities in the maintenance of healthy lifestyles and their effect on cumulative blood pressure burden and left ventricular mass in African Americans and whites: Data from the CARDIA study (NHLBI – F31)
- John Donnelly – Immunosuppression and Risk Prediction of Sepsis after Solid Organ Transplantation (NIGMS – F31)

## **Dissertation Committee Chair**

### **Tulane University**

- Amanda Hyre – “Assessing the Psychosocial Status of Hemodialysis Patients in the Aftermath of Hurricane Katrina”
- Claudio Sosa – “Risk Factors for Post-Partum Hemorrhage in a Latin American Population”

### **University of Alabama at Birmingham**

- John Booth – “Racial disparities in the Maintenance of Healthy Lifestyles in African Americans and Whites.”
- Rikki Tanner – “Blood pressure phenotypes in chronic kidney disease”
- Samantha Bromfield – “Ambulatory Blood Pressure Phenotypes in African Americans”
- Lisandro Colantonio – “Using Claims Data To Identify Myocardial Infarction”

## **Dissertation Committee Member**

### **Tulane University**

- Shahed Iqbal – “Low Level Lead Exposure in US Children”
- Kristi Reynolds - “End-stage Renal Disease in China”
- Ahmet Ergin – “Secular Trends in Cardiovascular Disease in the United States”
- Suma Vupputuri (ad hoc member) – “Non-concurrent Cohort Study of Renal Insufficiency Among Men”

### **University of Alabama at Birmingham**

- Kristal Aaron – “Cardiovascular Health and Healthcare Utilization”
- Gabriel Tajeu – “Cost effectiveness of antihypertensive treatment in African Americans”
- Huifeng Yen – “Safety and Effectiveness of Osteoporosis Medication among

Medicare Beneficiaries”

Peng Li – “The small sample size inferences of cluster randomized trials”

Huifeng Yen – “Safety and Effectiveness of Osteoporosis Medication among Medicare Beneficiaries”

John Donnelly – “Immunosuppression and Risk Prediction of Sepsis after Solid Organ Transplantation”

## **Masters Student Advising**

### **Tulane University:**

Anna Aguirre

Alana Biggers

Laura Boodleman

Corrine Blumling

Truong Bui

Farah Chowdhury

Sumit Chanana

Charla Dowell

Biswanth Gouda

Anjali Gupta

Amanda Hyre

Heather Haigh

Kyla Leon

Richard McCarroll

Chandan Mitra

Kendra Moran

Zerandrian Morris

Adam Readhead

Pamela Roa

Paul Roddy

Erin Stanley

Tesfaldet Tesema

Ananth Vadde

Anthony Yartel

### **University of Alabama at Birmingham:**

Emmy Bell

Melissa Gazi

Anna Junkins

Lasanne Kabore

Bharat Poudel

## **Teaching**

Current Course Director	Doctoral Seminar (University of Alabama at Birmingham School of Public Health, Fall 2017)
Former Course Director	Introduction to Epidemiologic Methods (University of Alabama at Birmingham School of Public Health, Fall 2014, Fall 2015)
Course Director	Epidemiologic Methods Applied to Comparative Effectiveness Research (University of Alabama at Birmingham School of Public Health, Spring 2012, Spring 2013, Spring 2014)
Course Director	Doctoral Seminar (University of Alabama at Birmingham School of Public Health, Summer 2011)
Course Director	Observational Epidemiology (Tulane University School of Public Health and Tropical Medicine, Fall 2004)
Co-Director	Cardiovascular Disease Epidemiology (Tulane University School of Public Health and Tropical Medicine, Spring 2004)
Course Director	Introduction to Epidemiology (Tulane University School of Public Health and Tropical Medicine, Fall 2001, Spring 2002, Fall 2002, Spring 2003, Fall 2003, Spring 2004, Spring 2006)
Course Director	Advanced Methods Journal Club (Tulane University School of Public Health and Tropical Medicine, Summer 2002)
Organizer	Departmental Seminar Series (Tulane University School of Public Health and Tropical Medicine, 2001-2002)

## PUBLICATIONS

### Manuscripts

1. **Muntner P**, Coresh J, Smith JC, Eckfeldt JH, Klag MJ. "Plasma Lipids and Risk of Developing Renal Dysfunction: 3-Year Follow-up Data from the Atherosclerosis Risk in Communities Study" Kidney International 2000 Jul;58(1):293-301.
2. **Muntner P**, Sudre P, Perneger TV. "Comparison of the Psychometric Properties of the Asthma Quality of Life Questionnaire (AQLQ) Among 115 Asthmatic Adults Assessed During Acute Hospitalization and as Outpatients." Quality of Life Research 2000;Sept (9):987-95.
3. **Muntner P**, Sudre P, Perneger TV. "Predictors of Participation and Attendance at a Clinical Trial of Asthma Self-Management." Chest 2001 Sep;120(3):778-84.
4. **Muntner P**, He J, Loria C, Hamm L, Whelton PK. "Chronic Renal Insufficiency and Mortality from Cardiovascular Disease in the United States." Journal of

- the American Society of Nephrology 2002 Mar; 13(3):745-53.
5. **Muntner P**, He J, Roccella EJ, Whelton PK. "The impact of using the Sixth Joint National Committee risk stratification guidelines on treatment recommendations in the US population" Hypertension. 2002 Apr;39(4):897-902.
  6. **Muntner P**, Coresh J, Garrett E, Burt VL, Klag MJ. "Trends in Stroke Prevalence Between 1973 and 1991 in the United States Population 25-74 Years of age" Stroke 2002 May;33(5):1209-13.
  7. **Muntner P**, Coresh J, Klag MJ, Whelton PK, Perneger TV "History of myocardial infarction and stroke among incident end-stage renal disease cases and population-based controls: an analysis of shared risk factors.." American Journal of Kidney Diseases. 2002 Aug; 40(2):323-30.
  8. He J, **Muntner P**, Roccella EJ, Streiffer R, Whelton PK. "Factors associated with hypertension control in the general population of the United States" Archives of Internal Medicine 2002 May; 162(9):1051-8
  9. Astor BC, **Muntner P**, Levin A, Eustace JA, Coresh J. "Association of Kidney Function with Anemia: The Third National Health and Nutrition Examination Survey (1988-1994)" Archives Internal Medicine 2002 Jun 24;162(12):1401-8.
  10. Perneger TV, Sudre P, **Muntner P**, Christophe Uldry, Chritiane Courtheuse, Anne-Francoise Naef, Jacquemet S, Rochat T. "Paradoxical Results of a Randomized Trial of Patient Education in Asthma." American Journal of Medicine 2002 Jul;113(1):7-14.
  11. Young JH, Klag MJ, **Muntner, P**, Whyte JL, Pahor M, Coresh J "Blood Pressure and Decline in Renal Function. Findings from the Systolic Hypertension in the Elderly Program (SHEP)" Journal of the American Society of Nephrology. 2002 Nov;13(11):2776-82.
  12. Gu D, Reynolds K, Wu X, Chen J, Duan X, **Muntner P**, Huang G, Reynolds RF, Su S, Whelton PK, He J; InterASIA Collaborative Group. The International Collaborative Study of Cardiovascular Disease in ASIA. Prevalence, awareness, treatment, and control of hypertension in china. Hypertension. 2002 Dec;40(6):920-7.
  13. Chen J, **Muntner P**, Hamm LL, Fonseca V, Batuman V, Whelton PK, He J. Insulin Resistance and Risk of Chronic Kidney Disease in Nondiabetic US Adults. Journal of the American Society of Nephrology. 2003 Feb;14(2):469-77.

14. Vupputuri S, He J, **Muntner P**, Whelton PK, Bazzano LA, Batuman V “Blood Lead Level Associated with Elevated Blood Pressure in African-Americans” Hypertension. 2003 Mar;41(3):463-8.
15. **Muntner P**, He J, Vupputuri S, Coresh J, Batuman V. Blood lead and chronic kidney disease in the general United States population: Results from NHANES III. Kidney International. 2003 Mar;63(3):1044-1050.
16. **Muntner P**, Coresh J, Powe NR, Klag MJ. “Do the increase in diabetes prevalence and improved myocardial infarction and stroke survival explain the increase in end-stage renal disease?” Journal of the American Society of Nephrology 2003 Jun;14(6):1568-77.
17. Bazzano LA, He J, **Muntner P**, Vupputuri S, Whelton PK. Relationship between cigarette smoking and novel risk factors for Cardiovascular disease in US adults. Annals of Internal Medicine. 2003 Jun 3;138(11):891-7.
18. Reynolds K, Gu D, **Muntner P**, Wu X, Chen J, Huang G, Duan X, Whelton PK, He J. Geographic variations in the prevalence, awareness, treatment and control of hypertension in China. Journal of Hypertension 2003 Jul;21(7):1273-81.
19. Feldman HI, Appel LJ, Chertow GM, Cifelli D, Cizman B, Daugirdas J, Fink JC, Franklin-Becker ED, Go AS, Hamm LL, He J, Hostetter T, Hsu CY, Jamerson K, Joffe M, Kusek JW, Landis JR, Lash JP, Miller ER, Mohler ER 3rd, **Muntner P**, Ojo AO, Rahman M, Townsend RR, Wright JT; Chronic Renal Insufficiency Cohort (CRIC) Study Investigators. The Chronic Renal Insufficiency Cohort (CRIC) Study: Design and Methods. Journal of the American Society of Nephrology. Jul;14(7 Suppl 2):S148-53.
20. DeSalvo K, Block J, **Muntner P**, Merrill B. Predictors of physician variation in office visit interval assignment International Journal for Quality in Health Care 2003 Oct; 15:399-405.
21. Vupputuri S, He J, **Muntner P**, Bazzano LA, Sherwin R, Lefante J, Whelton PK, Batuman V. Effect of blood pressure on early decline in renal function among hypertensive men. Hypertension 2003 Dec. 42; 1144-1149.
22. **Muntner P**, Coresh J, Klag MJ, Whelton PK, Perneger TV. An exploratory analysis of the association between exposure to radiologic contrast media and the incidence of treated end-stage renal disease. American Journal of the Medical Sciences Dec 2003. 326: 353-359.

23. **Muntner P**, Whelton PK, Kusek J, Hamm LL, He J. The prevalence of nontraditional risk factors for coronary heart disease in patients with chronic kidney disease. Annals of Internal Medicine. 2004 Jan 6;140(1):9-17.
24. Wood MA, **Muntner P**, He J, Whelton PK. Primary prevention of Hypertension. Medical Clinics of North America. 2004 Jan;88(1):223-38.
25. He J, Streiffer RJ, **Muntner P**, Krousel-Wood MA, Whelton PK Effect of dietary fiber intake on blood pressure: a randomized, double-blind, placebo-controlled trial. Journal of Hypertension 2004 Jan;22(1):73-80.
26. **Muntner P**, Gu D, Wu X, Duan X, Whelton PK, He J for the InterASIA Collaborative Group. Factors associated with hypertension awareness, treatment, and control in a representative sample of the Chinese population. Hypertension. 2004 Mar;43(3):578-85.
27. Eustace JA, Astor BC, **Muntner P**, Ikizier A, Coresh J. Inflammation and acidosis are independently associated with hypoalbuminemia across the spectrum of reduced glomerular filtration rates within the US population. Kidney International. 2004 Mar;65(3):1031-40.
28. Chen J, **Muntner P**, Fonseca V, Whelton PK, He J. Metabolic syndrome and risk of chronic kidney disease in US adults. Annals of Internal Medicine. 2004 Feb 3;140(3):167-74.
29. Vupputuri S, Batuman V, **Muntner P**, Lefante JJ, He J. The risk of mild kidney function decline associated with illicit drug use among hypertensive men. American Journal of Kidney Diseases. 2004 Apr;43(4):629-35.
30. Whelton SP, He J, Whelton PK, **Muntner P**. Fish consumption and risk of coronary heart disease: A meta-analysis. American Journal of Cardiology 2004 May 1;93(9):1119-23.
31. **Muntner P**, He J, Cutler JA, Whelton PK. Trends in blood pressure among children in the United States. Journal of the American Medical Association. 2004 May 5; 291: 207-213.
32. Erlinger TP, **Muntner P**, Helzesouer KJ. White blood cell count and the risk of cancer mortality in a national sample of U.S. adults : Results from the Second National Health and Nutrition Examination Survey (NHANES II) Mortality Study. Cancer Epidemiology and Biomarker Prevention 2004 Jun 13:1052-6.
33. He J, Gu D, Reynolds K, Wu X, **Muntner P**, Zhao J, Chen J, Liu D, Mo J, Whelton PK for the InterASIA Collaborative Group. Serum total and



- lipoprotein cholesterol levels and awareness, treatment and control of hypercholesterolemia in China. Circulation. 2004 Jul 27;110(4):405-11.
34. Whelton PK, He J, **Muntner P**. Prevalence, awareness, treatment and control of hypertension in North America, North Africa and Asia. Journal Human Hypertension. 2004 Aug;18(8):545-51.
  35. Ergin A, **Muntner P**, Sherwin RW, He J. Secular trends in cardiovascular disease mortality, incidence and case-fatality rates in US adults. American Journal of Medicine Aug 15;117(4):219-27.
  36. Wood MA, Thomas S, **Muntner P**, Morsiky D. Medication Adherence: A key factor in achieving blood pressure control and good clinical outcomes in hypertensive patients. Current Opinions of Cardiology. 2004 Jul;19(4):357-62.
  37. Wong TY, Coresh J, Klein R, **Muntner P**, Couper DJ, Sharret AR, Klein BE, Heiss G, Hubbard LD, Duncan BB. Retinal microvascular abnormalities and renal dysfunction in middle-aged people. Journal of the American Society of Nephrology. 2004 Sep;15(9):2469-76.
  38. **Muntner P**, He J, Chen J, Whelton PK. Increased prevalence of traditional and non-traditional cardiovascular disease risk factors among persons with impaired fasting glucose, diabetes, and the metabolic syndrome: Analysis of the Third National Health and Nutrition Examination Survey. Annals of Epidemiology. 2004 Oct;14(9):686-95.
  39. Huang J, Wildman RP, Gu D, **Muntner P**, Su S, He J. Prevalence of isolated systolic and isolated diastolic hypertension in China. American Journal of Hypertension 2004 Oct;17(10):955-62.
  40. Chen J, Wildman RP, Hamm LL, **Muntner P**, Reynolds K, Whelton PK, He J. Association between inflammation and insulin resistance in US non-diabetic adults: Results from NHANES III. Diabetes Care 2004 Dec;27(12):2960-5.
  41. Kearney PM, Whelton M, Reynolds K, **Muntner P**, Whelton PK, He J. Global burden of hypertension. The Lancet 2005 Jan 15;365(9455):217-23.
  42. **Muntner P**, He J, Astor BC, Folsom AR, Coresh J. Traditional and non-traditional risk factors predict coronary heart disease in chronic kidney disease: Results from the Atherosclerosis Risk in Communities Study. Journal of the American Society of Nephrology 2005 Feb 1. 16(2):529-538.
  43. Wildman RP, Gu D, **Muntner P**, Huang G, Chen J, Duan X, He J. Alcohol intake and isolated systolic hypertension in Chinese men. Journal of

- Hypertension. 2005 Apr;23(4):737-43.
44. Reynolds K, **Muntner P**, Fonseca V. Metabolic syndrome – Under-treated or under-diagnosed? Diabetes Care 2005 Jul;28(7):1831-2.
  45. Wood TA, Hyre A, **Muntner P**, Morisky D. Methods to improve medication adherence in hypertensive patients: Current status and future directions. Current Opinions of Cardiology 2005 Jul;20(4):296-300.
  46. **Muntner P**, Wildman RP, Reynolds K, DeSalvo KB, Chen J, Fonseca V. Glycosylated hemoglobin level and peripheral arterial disease in non-diabetic and diabetic adults. Diabetes Care 2005 Aug; 28. 1981-7.
  47. Wood MA, **Muntner P**, Jannu A, DeSalvo KB, Re R. Reliability of a medication adherence measure in an outpatient setting. American Journal of Medical Sciences 2005 Sep;330(3):128-33.
  48. Gu D, Gupta A, **Muntner P**, Duan X, Chen J, Reynolds RF, Whelton PK, He J. Prevalence of cardiovascular disease risk factor clustering among the adult population of China: Results from the International Collaborative Study of Cardiovascular Disease in ASIA (InterASIA). Circulation. Aug 2; 112(5):658-65.
  49. **Muntner P**, Gu D, Wildman WP, Wu X, Duan X, Whelton PK, He J for the InterASIA Collaborative Group. Prevalence of physical activity among Chinese adults: Results from the International Collaborative Study of Cardiovascular Disease in ASIA (InterASIA). American Journal of Public Health 2005 Sep;95:1631-6.
  50. **Muntner P**, Gu D, Reynolds RF, Whelton PK, He J. Therapeutic lifestyle changes and drug treatment for high blood cholesterol in China: Application of the Adult Treatment Panel III guidelines. American Journal of Cardiology; 2005 Nov 96: 1260-1265.
  51. Coresh J, **Muntner P**. Diabetic ESRD: Understanding the epidemic rise and have we reached a plateau? Nephrology Self-Assessment Program 2005 Nov. 4: 1-6.
  52. Wildman RP, **Muntner P**, Chen J, Tyrell-Sutton, He J. Inflammation is associated with peripheral arterial disease: Results from the National Health and Nutrition and Examination Survey, 1999-2002. American Journal of Cardiology 2005 Dec; 96: 1579-83.
  53. **Muntner P**, Menke A, DeSalvo KB, Rabito FA, Batuman V. Continued Decline

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484. Peters SAE, Colantonio LD, Zhao H, Bittner V, Dai Y, Farkouh ME, Monda KL, Safford MM, **Muntner P,** Woodward M. Sex Differences in High-Intensity Statin Use Following Myocardial Infarction in the United States. *Journal of the American College of Cardiology*. 2018 Apr 24;71(16):1729-1737.

### Book Chapters

1. **Muntner P,** He J, Whelton PK "The roles of sodium, potassium, and calcium in the treatment of hypertension" In NM Kaplan (Ed), *Hypertension Annual* (pp.55-78). London: Martin Dunitz.

2. Kearney P, He J, **Muntner P** "Blood Pressure and Risk of Vascular Disease" In Whelton and He (Eds): Lifestyle Modification for the Prevention and Treatment of Hypertension. (pp. 23-53). Marcel Dekker Inc.
3. **Muntner P**, He J, Whelton PK "Dietary Cations and Hypertension: From Clinical Trials to the Individual Patient" In B Egan (Ed): Hot Topics in Hypertension: A trip with the experts" (pp 165-180). Hanley & Belfus.
4. Krousel-Wood MA, Chambers RB, **Muntner P**: Clinicians' Guide to Statistics in Medical Practice And Research in Expert Guide to Cardiovascular Diseases. Mehra, Mandeep editor: Philadelphia, PA. American College of Physicians
5. **Muntner P**, Whelton PK, He J. In Battegay and Lip (Ed): Detection, Treatment and Control of Hypertension. Hypertension: Principles and Practice
6. **Muntner P**, Levin A. Epidemiology of Chronic Kidney Disease: Scope of the Problem. In Kimmel and Rosenberg (Ed): Chronic Renal Disease

### Invited Presentations

1. April 20, 2002, Chicago, Illinois  
"Which Lipid Parameters predict kidney and cardiovascular disease progression?"  
National Kidney Foundation.
2. December 7, 2002, Baltimore, Maryland  
"Understanding cardiovascular disease among patients with chronic kidney disease in the United States"  
Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health
3. February 20, 2004, New Orleans, Louisiana  
"Hypertension in African-Americans: Awareness, Treatment and Prevention"  
Keynote Speaker – Black History Month Luncheon  
Black Student's Association, Tulane University School of Public Health and Tropical Medicine
4. March 6, 2004, New Orleans, Louisiana  
"Chronic Kidney Disease and Cardiovascular Disease: An Overview"  
Continuing Medical Education Lecture, Tulane University School of Medicine
5. March 17, 2004, New Orleans, Louisiana  
"The African-American Women's Study of Moderate Exercise (AWESOME) – An Update"



Hypertension and Renal Center of Excellence Grand Rounds, Tulane University School of Medicine

6. October 12, 2004, New Orleans, Louisiana  
“Principles of Statistical Analysis in Clinical Research”  
Responsible Conduct in Clinical Research Annual Lecture Series, Ochsner Clinic Foundation.
7. October 29, 2004, St Louis, Missouri  
“Lead and the Progression of Kidney Disease”  
American Society of Nephrology Annual Scientific Session
8. May 2, 2005, New Orleans, Louisiana  
“Incidence/Prevalence of Chronic Kidney Disease and Cardiovascular Disease”  
Chronic Kidney Disease: Vascular and Cardiovascular Comorbidities. Sponsored by the Annenberg Center for Health Sciences
9. May 13, 2005, New Orleans, Louisiana  
“Renal Disease as a Risk Factor for Cardiovascular Disease”  
XXVII Meeting of the International Society for Heart Research (ISHR), American Section
10. October 12, 2007, Boston, Massachusetts  
“Metabolic Syndrome and Chronic Kidney Disease: Extent of the Problem and Correlations”  
The American College of Osteopathic Internists 67<sup>th</sup> Annual Convention and Scientific Sessions
11. October 25, 2007, Calgary, Alberta  
“Reclassification of Chronic Kidney Disease as a Coronary Heart Disease Risk Equivalent.”  
University of Calgary, Nephrology Grand Rounds
12. November 5, 2007, San Francisco, California  
“Public Health Implications of Chronic Kidney Disease as a Coronary Heart Disease Risk Equivalent”  
American Society of Nephrology Annual Scientific Session
13. February 12, 2008, New York, NY  
“Reclassification of Chronic Kidney Disease as a Coronary Heart Disease Risk Equivalent”  
Department of Medicine Grand Rounds, Mount Sinai School of Medicine
14. March 26, 2008, Cleveland, OH

- “Impact of Hurricane Katrina on Dialysis Patient Health”  
Department of Epidemiology and Biostatistics Grand Rounds, Case Western Reserve University
15. February 19, 2009, Bronx, NY  
“The Role of Environmental Lead Exposure in the Progression of Chronic Kidney Disease” Division of Nephrology Grand Rounds, Albert Einstein Yeshiva School of Medicine
  16. October 27, 2009, San Diego, CA  
“How to design a study: The challenge of Sample Size & Power”  
A Primer on Epidemiology and Outcomes Research in Nephrology  
American Society of Nephrology Renal Week 2009
  17. October 27, 2009, San Diego, CA  
“Real World Power Calculations”  
A Primer on Epidemiology and Outcomes Research in Nephrology  
American Society of Nephrology Renal Week 2009
  18. October 28, 2009, San Diego, CA  
“Hypertension and the Kidney”  
CKD and CVD from the Vascular Viewpoint: Merging Basic and Clinical Sciences to Optimize Treatment  
American Society of Nephrology Renal Week 2009
  19. November 18, 2010, Denver, CO  
“What if Data Are Not Missing by Accident? Informative Censoring”  
Improving Comparative Effectiveness Research (CER) of Drugs, Devices, and Clinical Strategies in Nephrology  
American Society of Nephrology Renal Week 2010
  20. October 31, 2011, New Orleans, LA  
“Development and Validation of a Self-report Tool for Albuminuria”  
Tulane University  
Department of Epidemiology Seminar Series
  21. November 12, 2011, Philadelphia, PA  
“Blood Pressure Variability – An Emerging Cardiovascular Disease Risk Factor”  
American Society of Nephrology Renal Week 2011
  22. November 16, 2012, Bethesda, MD  
“Blood Pressure Variability and Cardiovascular and Renal Disease Incidence”  
Presentation to the ALLHAT Steering Committee

22. April 3, 2014, Jackson, MS  
"Visit to Visit Variability of Blood Pressure: A Novel Risk Factor for Cardiovascular Disease"  
University of Mississippi Medical Center  
Robert M. Hearin Distinguished Lecture
23. May 22, 2014, Antalya, Turkey  
"Global Burden of Hypertension"  
Turkish Congress of Nephrology and Hypertension
24. May 23, 2014, Antalya, Turkey  
"Visit to Visit Variability of Blood Pressure: A Novel Risk Factor for Cardiovascular Disease"  
Turkish Congress of Nephrology and Hypertension
26. November 17, 2014, Washington DC  
"Blood Pressure Variability and Cardiovascular and Renal Outcomes"  
Division of Nephrology, George Washington University
27. November 17, 2014, Chicago, IL  
"CKD Is a Major Risk Factor for Cardiovascular Disease and Stroke"  
American Heart Association Scientific Sessions
28. December 17, 2014, Atlanta, GA  
"Racial Differences in Ambulatory Blood Pressure Monitoring Phenotypes and Cardiovascular Disease Risk and their Clinical/Public Health Implications"  
US Centers for Disease Control and Prevention
29. April 17, 2015, Lodz, Poland  
"Optimal Blood Pressure Goal in Older Adults"  
Healthy Aging Research Committee
30. April 22, 2015, Chapel Hill, NC  
"Blood Pressure Variability and Cardiovascular and Renal Outcomes"  
University of North Carolina
30. October 17-18, 2015, Atlanta, GA  
"Development of Norms for Ambulatory Blood Pressure Monitoring"  
US Centers for Disease Control and Prevention
31. April 21, 2016, Salt Lake City, UT  
"Debunking Myths and Misperceptions of Hypertension"  
Department of Medicine, University of Utah

32. November 14, 2016, New Orleans, LA  
“Using administrative claims data in epidemiology research”  
Department of Epidemiology, Tulane University
33. December 15, 2016, New Orleans, LA  
“Racial differences in ambulatory blood pressure monitoring phenotypes: Clinical and Public Health Implications and Future Research Needs”  
Department of Physiology, Tulane University
34. February 12, 2017, New Orleans, LA  
“Using Risk and not Risk Factors to Guide Treatment: A Population-based Approach”  
Southern Society for Clinical Investigation; Southern Epidemiology & Population Health Club Luncheon
35. July 8, 2017, Vienna, Austria  
“Risk factors for Falls in Older Hypertensive Adults in US Population Based on REGARDS and Medicare Data”  
2<sup>nd</sup> Congress of Cardiovascular Prevention in Pre-Elderly and Elderly Individuals
36. November 4, 2017, New Orleans, LA  
“Association of BP Variability with Cardiovascular Events and Mortality”  
Kidney Week; American Society of Nephrology
37. March 22, 2018, New Orleans, LA  
“Potential US Population Impact of the 2017 ACC/AHA High Blood Pressure Guideline”  
American Heart Association Epidemiology Council meeting
38. September 8, 2018, Chicago, IL  
“Understanding the Data that Drove the 2017 ACC/AHA Guidelines”  
American Heart Association Hypertension Council meeting
39. September 14, 2018  
“Using 10-year ASCVD risk to guide antihypertensive medication treatment decisions”  
41<sup>st</sup> Annual Japanese Society of Hypertension meeting
40. September 15, 2018  
“Population Impact of the 2017 ACC/AHA High Blood Pressure Guideline”  
41<sup>st</sup> Annual Japanese Society of Hypertension meeting
41. October 25, 2018, San Diego, CA

“Overview of the New Hypertension Guidelines”  
American Society of Nephrology Kidney Week

42. November 10, 2018, Chicago, IL  
“Population Impact of the New Blood Pressure Guideline and What it Means for Practice”  
American Heart Association Scientific Sessions
43. November 10, 2018, Chicago, IL  
“Visit-to-Visit Blood Pressure Variability: Is it More Than Measurement Error?”  
American Heart Association Scientific Sessions

## **FUNDED RESEARCH GRANTS**

### **CURRENT:**

American Heart Association (Muntner, PI)  
4/01/2015– 3/31/2019

UAB Strategically Focused Hypertension Research Center

This study focuses on circadian blood pressure patterns. In a population science study, we will evaluate racial differences in nocturnal hypertension and non-dipping blood pressure. In a clinical science project, we will evaluate the effect of sodium intake on diurnal blood pressure and sleep apnea. In basic science studies, we will study mechanisms leading to loss of diurnal blood pressure patterns. Additionally, this grant involves the training of three post-doctoral fellows.

Role: Center director and principal investigator of the population science project.

NIH/NHLBI K12153958 (Muntner, PI)  
8/1/2018– 6/30/2023

UAB Institutional Career Development Program in HIV-Related Heart, Lung, Blood and Research

The objective of this grant is to test a new approach for measuring blood pressure in the clinic for accurately diagnosing hypertension. We will also test a new approach for measuring blood pressure while people sleep.

Role: Program Director/Principal investigator

NIH/NHLBI R01HL139716-01A1 (Muntner, PI)  
7/15/2018– 4/30/2022

Evaluating novel approaches for estimating awake and sleep blood pressure

The objective of this grant is to test a new approach for measuring blood pressure in the clinic for accurately diagnosing hypertension. We will also test a new approach for measuring blood pressure while people sleep.

Role: Principal investigator

NIH/NHLBI 1R01HL117323-01 (Muntner, PI)

7/15/2013– 6/30/2021

Incorporation of a Hypertension Working Group into the Jackson Heart Study

The objective of this grant is to identify novel risk factors for hypertension and potential approaches to improve hypertension control rates and reduce BP related complications among African Americans. We will integrate a strong mentorship component to help early stage investigators (ESIs), especially minority investigators, move towards independence.

Role: Principal investigator

NIH/NIDDK R01 DK108438-01 (Overton, PI)

12/01/2015 – 11/30/2020

Effect of Pitavastatin on Kidney Function in HIV-infected Persons

The overall goal of this project is to determine the effect of statin therapy on slowing the progression of chronic kidney disease among patients with HIV enrolled in the Randomized Trial to Prevent Vascular Events in HIV (REPRIEVE).

Role: Co-investigator

NIH/NHLBI R01 HL 133618-01 (Bowling, PI)

09/15/2016 – 08/31/2020

Sustained Blood Pressure Control and Progression of Multimorbidity

The overall goal of this project is to determine the effect of persistent blood pressure control on the prevention of multi-morbidity. This study is being conducted in the Antihypertensive and Lipid-Lowering Treatment to Prevent Heart Attack Trial (ALLHAT) study population.

Role: Co-investigator

NIH/NHLBI 2 R01 HL080477-06 (Safford, PI)

9/30/2011-8/31/2020

REasons for the Geographic and Racial Differences in Stroke (REGARDS – MI Study) (REGARDS-MI).

This study will continue to retrieve and rigorously adjudicate acute coronary heart disease (CHD) events in the REasons for Geographic And Racial Differences in Stroke cohort to test hypotheses on regional and racial differences in acute CHD outcomes. \* Renewal scored at the 7<sup>th</sup> percentile.

Role: Co-investigator

NIH/NHLBI NO1 HC48047 (Lewis, PI)

12/30/2008 – 6/30/2023

Coronary Artery Risk Development in Young Adults (CARDIA): Field Center

We will re-examine at least 3,525 participants at Y30 according to the five main objectives: 1) Assess the timing impact and varying risk factor levels from young adulthood on the subclinical ventricular, vascular, and pulmonary function abnormalities

development in mid-life; 2) Examine antecedents and consequences, longitudinal relationships and interactions among adiposity, insulin resistance and inflammation; 3) Identify subclinical disease development determinants and trajectories in women during menopause transition compared to men of similar age; 4) Further assess the basis for racial differences in subclinical disease development; and 5) Provide a platform for in-depth studies in cardiovascular and other areas.

Role: Co-investigator

Amgen Inc. 200709824 (Muntner, PI)

11/01/2011 – 06/30/2019

Cardiovascular Disease, Prevention, Treatment and Outcomes.

The goal of this study is to determine the prevalence of high LDL-cholesterol and patterns of statin use and outcomes among US adults.

Role: Principal investigator

NIH/NHLBI 1R01 HL135199-01A1 (Kern, PI; Muntner, site PI)

5/15/2017 – 04/30/2021

Healthcare Fragmentation and Cardiovascular Outcomes

The goals of this project are to determine the risk factors for having highly fragmented healthcare and to determine associations between fragmented healthcare (as measured through claims and through surveys) and cardiovascular outcomes. This project is an ancillary study to the REGARDS study.

Role: Site PI

NIH/NHLBI 1R01HL139837-01 (Moran, PI; Muntner, site PI)

12/01/2017 – 11/30/2021

Patient Level Prediction of Clinical Outcomes and Healthcare Costs in the Systolic Blood Pressure Intervention Trial (Optimize-SPRINT)

The goals of the Optimize-SPRINT study is an ancillary study to the landmark SPRINT trial that compared intensive versus standard blood pressure-lowering treatment.

Optimize-SPRINT will use predictive modeling and health economic methods to facilitate selection of optimal population groups and individual patients for intensive high blood pressure treatment."

Role: Site PI

## **COMPLETED:**

2011-2016 Co-investigator Visit-to-visit variability of blood pressure and CVD and renal outcomes. R01 supported by the National Heart Lung and Blood Institute.

2011-2016 Co-investigator "Activating Patients to Reduce Osteoporosis (APROPOS)" R01 supported by the National Institute of Arthritis and

Musculoskeletal and Skin Diseases.

- 2012-2015 Co-investigator. "Trace Elements Levels and Risk of Stroke: A Reason for 'Stroke Belt' R01 supported by the National Institute of Environmental Health Sciences (NIEHS).
- 2003-2012 Co-investigator. "Renal Ancillary Study of the REGARDS study". Supported by Amgen.
- 2011-2011 Co-Principal Investigators. "Comprehensive literature review and collection of data sources related to the observational study of LDL-cholesterol and statin use" Supported by contract from Amgen.
- 2005-2010 Principal Investigator\*. "Cohort Study of Medication Adherence among Older Adults." Supported by an R01 grant from the National Institutes of Aging  
\* Data Coordinating Center sub-contract
- 2010-2012 Co-investigator "Assessment of the Reliability and Validity of the Morisky Adherence Scale for Osteoporosis Medications." Supported by Amgen.
- 2008-2010 Consultant. "Quantitative Epidemiologic Assessment of the Metabolic Syndrome Definition". Supported by an R21 from the National Heart Lung and Blood Institute.
- 2008-2009 Co-investigator. "Ambulatory Closure Devices in Percutaneous Coronary Interventions." Supported by a contract from St. Jude's Medical Company
- 2004-2007 Principal Investigator. "Blood Pressure, Cholesterol and Glycemic Control" Supported by a K01 grant from the National Institute of Diabetes and Digestive and Kidney Diseases
- 2002-2006 Principal Investigator "Clinical Trial of Physical Activity among African-American Women". Supported by a Scientist Development grant from the American Heart Association
- 2004-2006 Principal Investigator "The Impact of ALLHAT on Anti-Hypertensive Prescription Patterns". Supported by a sub-contract from the National Heart, Lung, and Blood Institute.
- 2002-2006 Principal Investigator of project 5: "Two studies of Physical Activity" Supported by a 5-year \$1,816,850 grant from the National Institutes of Health (NCRR) Centers of Biomedical Research Resources.



- 2001–2007 Co-Investigator, "Clinical Center for Prospective Cohort Study of Chronic Renal Insufficiency". Supported by a grant from the National Institute of Diabetes and Digestive and Kidney Diseases
- 2002-2006 Co-Investigator "Genetic Epidemiology of Blood Pressure Intervention" Supported by a grant from the National Heart Lung and Blood Institute.
- 2003-2005 Co-Investigator "Group Medical Appointments" Supported by a grant award from the Agency For Healthcare Research and Quality.
- 2006-2008 Consultant "Novel Risk Factors for Chronic Kidney Disease" Supported by a 2-year R21 grant award from the National Institute of Diabetes and Digestive and Kidney Diseases.
- 2006-2006 Principal Investigator "Impact of Hurricane Katrina on Dialysis Patient Health" Supported by a six-month contract from National Institute of Diabetes and Digestive and Kidney Diseases through Emory University.
- 2006-2007 Principal Investigator "Association of Low HDL Cholesterol with Coronary Heart Disease across Risk Categories: the Atherosclerosis Risk in Communities (ARIC) Study" Supported by a contract from Pfizer Inc.
- 2008–2014 Principal Investigator of subcontract of "Depression, Biobehavioral mechanisms, and CHD/Mortality outcomes," supported by National Heart Lung and Blood Institute.