

# CURRICULUM VITAE

Virginia J. Howard, PhD

## **PERSONAL:**

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## **PROFESSIONAL EXPERIENCE:**

2020- Distinguished Professor, Department of Epidemiology, School of Public Health, UAB  
2011- Professor, Department of Epidemiology, School of Public Health, UAB  
2020- Senior Scientist, UAB McKnight Brain Institute  
2015- Senior Scientist, UAB Nutrition Obesity Research Center (NORC)  
2015- Senior Scientist, UAB Center for the Study of Community Health  
2014- Senior Scientist, UAB Center for Exercise Medicine  
2014- Senior Scientist, UAB Nephrology Research and Training Center  
2013- Senior Scientist, UAB Comprehensive Diabetes Center  
2012- Senior Scientist, UAB Comprehensive Cardiovascular Center  
2012- Senior Scientist, UAB Minority Health and Research Center  
2012- Senior Scientist, UAB Center for Outcomes and Effectiveness Research and Education (COERE)  
2012- Senior Scientist, UAB Comprehensive Center for Healthy Aging  
2005-2014 Associate Scientist, UAB Nephrology Research and Training Center (NRTC)  
2010-2012 Senior Scientist, UAB Center for Cardiovascular Biology  
2008-2011 Associate Professor, Department of Epidemiology, School of Public Health, University of Alabama at Birmingham, Birmingham, Alabama  
1999–2008 Assistant Professor, Department of Epidemiology, School of Public Health, University of Alabama at Birmingham, Birmingham, Alabama  
1999-2008 Adjunct Assistant Professor, Department of Neurology, Wake Forest University School of Medicine, Winston-Salem, North Carolina  
1994–1999 Research Assistant Professor, Department of Neurology, Wake Forest University School of Medicine, Winston-Salem, North Carolina  
1992–1994 Lecturer (Vascular Clinical Trials), Department of Neurology, Bowman Gray School of Medicine, Winston-Salem, North Carolina  
1985–1992 Research Associate, Department of Neurology, Bowman Gray School of Medicine, Winston-Salem, North Carolina  
1982–1985 Biostatistician, Department of Neurology, Bowman Gray School of Medicine, Winston-Salem, North Carolina  
1977–1980 Statistical Analyst, Oncology Research Center, Bowman Gray School of Medicine, Winston-Salem, North Carolina

**EDUCATION:**

- 2006–2008 Ph.D – Epidemiology, Medical University of South Carolina, Charleston, South Carolina  
1992–2000 Ph.D Program – Epidemiology, School of Public Health University of North Carolina, Chapel Hill, North Carolina  
1980–1982 MSPH – Biostatistics – School of Public Health, University of North Carolina, Chapel Hill, North Carolina  
1971–1975 B.A. Cum laude – Mathematics and Psychology – St. Andrews Presbyterian College, Laurinburg, North Carolina

**Continuing Education:**

- October 2017 CCTS Community Engagement Institute: Community Health from Engagement and Environmental Renewal (CHEER) for Civil Inclusion and Empowerment  
April 2017 UAB Mentoring Academy  
October 2016 CCTS Community Engagement Institute: The Journey to Justice: Expanding the Possibilities, Birmingham, AL  
June 2016 Advanced Psychometrics Methods in Cognitive Aging Research Conference, University of Washington Friday Harbor Laboratory  
February 2014 NIH Conference on Complex Systems, Health Disparities, and Population Health: Building Bridges  
September 2013 Place Matters National Conference, Joint Center for Political and Economic Studies  
September 2011 Place Matters National Conference, Joint Center for Political and Economic Studies  
April 2011 “Reconsidering Mail Survey Methods in an Internet World” (Dr. Don Dillman), American Statistical Association, Survey Research Methods  
November 2010 “Address-Based Sampling: What Do We Know So Far?” American Statistical Association, Section on Survey Research Methods.  
September 2010 Workshop on Socioeconomic Status and Health across Generations and Over the Life Course. Univ of Michigan, Institute for Social Research  
February 2010 “The Psychology of Survey Response.” American Statistical Association, Section on Survey Research Methods.  
July 2008 NHLBI Cohort Studies Workshop, Northwestern University  
June 2008 “How to be an outstanding reviewer” Seminar/Workshop by Associate Editor, Journal of General Internal Medicine.  
January 2008 “Cultural competence in health professions education.” UAB FAC117 Faculty Development Seminar

**OTHER PROFESSIONAL ACTIVITIES:**

**Editorial Boards:**

- International Journal of Stroke, Editorial Board, 2013 to present  
Stroke Editorial Board, 2020- present (previously 1995-2006)

**Other editorial/review work:**

- AHA secondary stroke prevention guidelines 2020  
American Journal of Epidemiology

American Journal of the Medical Sciences  
 American Journal of Preventive Medicine  
 American Journal of Public Health  
 Annals of Epidemiology  
 Annals of Neurology  
 Archives of Internal Medicine  
 Archives of Medical Science 2020  
 BMC Neurology  
 Circulation  
 Circulation: Cardiovascular Quality and Outcomes  
 Clinical Epidemiology  
 Clinical Trials (the journal of the Society for Clinical Trials) 2020  
 CVD Prevention  
 European Journal of Neurology 2020  
 Hypertension (AHA Journal)  
 Hypertension Research  
 International Journal of Stroke 2020  
 JAMA 2020  
 JAMA Neurology 2020  
 Journal of American College of Cardiology  
 Journal of the American Geriatrics Society  
 Journal of Epidemiology and Community Health  
 Journal of General Internal Medicine  
 Journal of Health Care for the Poor and Underserved  
 Journal of Human Hypertension  
 Journal of the Neurological Sciences 2020  
 Journal of Stroke and Cerebrovascular Diseases 2020  
 Journal of Vascular Surgery  
 Lancet Neurology  
 Lancet Public Health  
 Lancet  
 Nature Reviews Neurology  
 Neurology 2020  
 Stroke 2020

#### GRANT REVIEWS:

2021	UAB CCTS Panels Program (Jan)
2020, October	AHA Centers of Excellence in Hemorrhagic Stroke, Phase I (co-chair)
2020, September	Wellcome Trust DBT India Alliance Fellowship
2020	UAB CCTS Panels Program (Feb, May (two), July)
2020, February	NIH/NINDS T32 Training Grants, ad hoc reviewer
2019, 2020	NIH Loan Repayment Grants
2019	UAB CCTs Panels Program (two grants)
2019, March	UAB/NIA RCMAR Pilot Grants
2018, September	UAB CCTS Panels Program (two grants)
2018, July	AHA/Allen Initiative in Brain Health and Cognitive Impairment, Phase I

2018, July	UAB Obesity Health Disparities Research Center (OHDRC)
2017, October	NIH/NINDS Institutional Research Training Grant (T32) program Special Emphasis Panel (ZNS1 SRB-B (58))
2017, August	MRC Peer Review
2017, May	NIH/NIA Special Emphasis Panel, Contract Review
2017, April	French Stroke Research Foundation
2016, Dec	Stroke Association, British Heart Foundation, and Alzheimer's Society proposals on "Advancing Care and Treatment of Vascular Dementia"
2016, Oct	Neurological Foundation of New Zealand
2016, Feb	UAB CCTS Panels Done Quickly/Nascent Panel Project team
2016, Feb	NIH/Health Disparities and Equity Promotion Study Section
2016, Feb	NIH ZRG1 HDM K50 and K55 Study Section
2016, March	UAB Research Projects in African American Men's Health throughout the Life Course (RFA-CHAAMPS-15-01)
2015, April	NIH/NIDA contract reviews, Clinical Research Coordination Center
2014, November	NIH/NICHHD P01 Review
2013, April	AHA Outcomes Population Peer Review Committee
2012, July	NIH/NINDS Special Emphasis Panel, Stroke Prevention/Intervention Research Program (SPIRP)
2011, October	AHA Innovative Research Peer Review Committee
2011, June	NIOSH NORA FY12 Intramural Project Funding Opportunities
2010, Oct	NIH Kidney, Nutrition, Obesity and Diabetes (KNOD) Study Section
2010, April	NIH/NIDA contract reviews, Clinical Coordinating Center Support
2009, June	NIH Challenge Grants
2009, June	NIH/NINDS Ad Hoc Reviewer
2008, October	AHA Innovative Research Peer Review Committee
2007, June	NIH/NINDS Ad hoc reviewer, ZNS1 SRB
2006, Jan, Nov	NIH/NINDS Special Emphasis Panel
2005, September	MRC (UK) Health Services and Public Health Research Board
2005, July	CDC, Special Emphasis Panel, Stroke Care Quality Indicators
2005, January	NIH/NIDA contract reviews, Clinical Coordinating Support
2004, June, Nov	NIH/NINDS Special Emphasis Panel
2004, May	Health Consequences of Population Change (HCPC) Programme International Health Programmes, The Wellcome Trust, UK
2004, April	Chair, NIH/NINDS Special Review Committee for multicenter clinical trial, Neurological Sciences and Disorders Committee K (NSDK)
2003, August	NIH/NINDS, Ad hoc reviewer, NSDK
2002, October	The PPP Foundation, London, England: An international multicentre clinical trial comparing techniques of carotid endarterectomy
2002, September	Sheffield Hospitals Charitable Trust, United Kingdom: A randomised trial of homocysteine after acute ischemic stroke

2002, August	NIH/NINDS, Ad hoc reviewer, NeuroAids
2002, June	NIH/NINDS, Ad hoc reviewer, NSDK
2002, March	NIH/NINDS, Ad hoc reviewer, Parkinson's Disease Neuroprotection Clinical Trials: Clinical Centers
1997	NIH/NINDS, Ad hoc reviewer, Program Project Review Committee A (NSPA)
1992–1996	NIH/NINDS, Member, NSPA study section
1992	NIH/NINDS, Ad hoc reviewer, NSPA

INVITED PARTICIPATION, PROFESSIONAL AND FEDERAL GOVERNMENT ADVISORY ROLES :

2021-	Member, Workforce Diversity and Health Disparities Training subcommittee of the NINDS Steering Committee on Health Disparities
2021-	Member of DSMB for a National Institute of Aging clinical trial
2021	Abstract Grader, “Sex, Gender, and Stroke Prevention, Treatment and Recovery” for the European Stroke Organisation Conference
2020	Moderator, Oral Abstract Presentation Session: “Community/Risk Factors Oral Abstracts I,” American Stroke Association International Stroke Conference, Los Angeles, CA
2020	Moderator and Organizer, “Stroke and Women,” Stroke Central, American Stroke Association International Stroke Conference, Los Angeles, CA
2020-	Chair, Nominations Committee, Society for Clinical Trials
2019-2021	Co-chair, American Heart Association (AHA) Writing Group related to cognitive health
2019-2020	Member, AHA Writing Group related to Go Red for Women
2019-present	Member of Planning Committee/Invited Panel Member for AHA/ASA International Stroke Conference: The Health Equity & Actionable Disparities in Stroke: Understanding & Problem-solving (HEADS-UP),
2019	Moderator, Oral Abstract Presentation Session: “Retention and Adherence” Society for Clinical Trials Annual Meeting, New Orleans, LA
2018	Moderator and Organizer of Invited Session for World Stroke Congress: <i>Building Momentum to Address Sex Differences in Stroke</i> , October 20, 2018, Montreal, Canada
2018	Moderator, Invited Session, Physical Activity and the Brain: Maximising Recovery and Function Post-Stroke, American Stroke Association, International Stroke Conference, January 24, 2018, Los Angeles, CA
2018-present	Abstract Grader, AHA Scientific Sessions
2017-2019	Member, Writing Group for AHA Surveillance Policy Statement
2017	Abstract Grader, International Association of Gerontology and Geriatrics World Congress
2017	Member, Writing Group for AHA/ASA Presidential Advisory on Defining Optimal Brain Health in Adults
2016	Moderator, Invited Session, Special Issues in Stroke Prevention and Management in Women, AHA Scientific Sessions, November 13, 2016, New Orleans, LA
2016	Moderator, 27 <sup>th</sup> Annual Vascular Biology and Hypertension Symposium, UAB
2016	Moderator, Oral Abstract Presentation Session: “Improving Participant Involvement in RCTs.” Society for Clinical Trials Annual Meeting, Montreal, Quebec, Canada
2016	Moderator, “Engaging Unique Therapies in Special Populations,” Annual Scientific Sessions of the Consortium for Southeastern Hypertension Control (COSEHC), March 4
2016	Member, External Peer Review Panel for the CDC Paul Coverdell National Acute Stroke Program

- 2016-present Abstract Grader, Gerontological Society of America annual meeting
- 2014-2020 Member, Oversight Advisory Committee, ASA-Bugher Foundation Centers of Excellence in Stroke Collaborative Research for Regeneration, Resilience and Secondary Prevention
- 2014 Panelist, NIH Workshop on Enrollment and Retention of Participants in NIH-funded Clinical Trials
- 2014 Moderator, Invited Session “Does Protecting the Brain from Stroke and Its Neurodegenerative Effects Have Its Origins in Youth?” ASA/AHA International Stroke Conference
- 2014 Reviewer, US Preventive Services Task Force Recommendation Statement and Evidence Review of Screening for Carotid Artery Stenosis
- 2013-2017 Member, Program Advisory Committee SPIRP (Stroke Prevention Intervention and Research Program) NYU/Columbia University Center for Stroke Disparities and Solutions
- 2013-2014 Member, Primary Prevention Working Group, NINDS IDEAS - Interventions Designed to Eliminate and Solve Stroke Disparities; workshop and writing group member
- 2013 Member, Alzheimer’s Disease-Related Dementias (ADRD) Workshop Disparities Committee, sponsored by NIA/NINDS
- 2013-2015 Member, Social Determinants of Health, AHA CVD Epidemiology/Lifestyle Council and QCOR
- 2012-2015 Member, Membership and Communications Committee, AHA CVD Epidemiology and Prevention Council
- 2012-2015 Member, AHA/ASA Writing Group: Guidelines for Management of Patients with Unruptured Intracranial Aneurysms
- 2012-2017 Member of Education Committee, Society for Clinical Trials
- 2012-2015 Member, AHA Workforce Wellness Science Task Force
- 2012-2013 Member, AHA/ASA Writing Group: Guidelines for the Prevention of Stroke in Women
- 2012 Member, NINDS Stroke Research Priorities Planning Workgroup
- 2011-2013 Member, AHA/ASA Writing Group: Forecasting the Future of Stroke in the US
- 2011-2019 Member, Planning Committee for National Forum on Heart Disease and Stroke Prevention annual meetings
- 2011-present Member, Steering Committee, Common Data Elements (CDE), NINDS
- 2011-present Member, Oversight Committee, Stroke Common Data Elements, NINDS
- 2011,14,17-20 Member, Fellows Nominating Committee, Society for Clinical Trials
- 2011 Discussion Leader, NINDS Roundtable Discussions for Stroke Disparities Solutions, ASA International Stroke Conference
- 2011 Abstract Grader and Poster Judge for Student Posters, North American Congress of Epidemiology
- 2011 Presenter, 2<sup>ND</sup> Annual AHA Research Reception, Birmingham, AL
- 2010-2014 Liaison from AHA Stroke Council to AHA Council on Clinical Cardiology Committee on CVD and Stroke in Older Populations
- 2010-2014 Member, AHA Executive Database Steering Committee
- 2010 Host and Presenter, AHA Inaugural Research Reception, Birmingham, AL
- 2010 Moderator, Oral abstract session, AHA/ASA International Stroke Conference
- 2009-2014 Member, DSMB for National Institute of Drug Abuse
- 2009-2013 Member, Stroke Council Minority Affairs Committee
- 2009-2011 Member, Education Outreach Committee, Society for Clinical Trials
- 2008-2010 Member, AHA/ASA Writing Group: Guidelines for the Prevention of Ischemic Stroke

- 2009, 2010 Member, Nominating Committee, Society for Clinical Trials
- 2009-present Abstract Grader, ASA/AHA International Stroke Conference
- 2009, '13,'14 Moderator, Oral abstract session, Society for Clinical Trials meeting
- 2008, 2017 Abstract Grader, AHA Scientific Sessions
- 2008-2010 Member, Expert Advisory Panel, NINDS ImPACT Program (through the Duke Center for Clinical Health Policy Research)
- 2008–2009 Member, Program Committee, 30<sup>th</sup> meeting, Society for Clinical Trials
- 2007–2009 Member, AHA Writing Group: Evaluation of Novel Markers of Cardiovascular Risk and Subclinical Atherosclerosis
- 2007-2016 Ad hoc member, Stroke Statistics Subcommittee, Committee on Epidemiology and Statistics, AHA Epid and Prevention Council
- 2005-2010 Abstract Grader, Conference on AHA Epidemiology and Prevention
- 2007-2012 Mentor, AHA International Mentoring Program
- 2007 Member, AHA 2020 Goals and Measures subgroup for the Strategic Planning Task Force
- 2006–2007 Member, Program Committee, 28<sup>th</sup> meeting, Society for Clinical Trials
- 2006–2007 Member, AHA Strategic Planning Committee
- 2006 Moderator, 46<sup>th</sup> Annual Conference on AHA Epid and Prevention
- 2006 Special invited member to join Executive Board for 2-day planning meeting for the 4<sup>th</sup> National Forum on Heart Disease and Stroke Prevention, sponsored by CDC
- 2005–2007 Co-Chair, Education Committee, Society for Clinical Trials
- 2000-2007 Member of Education Committee, Society for Clinical Trials
- 2005 Panelist, Advancing the Study of Stroke in Women, sponsored by Duke University Department of Medicine/Division of Neurology
- 2005 Speaker and Panelist, NHLBI Workshop: Data Needs for Cardiovascular Events, Management and Outcomes
- 2000–2006 Abstract Grader, On-Going Clinical Trials, AHA International Stroke Conference (27<sup>th</sup>–32<sup>nd</sup> conference)
- 2004–2007 Member, AHA Writing Group on Epidemiology Cardiovascular Surveillance
- 2000–2007 Member, Committee on Epid and Statistics, AHA Epid and Prevention Council
- 2003–2007 Organizing Chairperson, Stroke Statistics Subcommittee, Committee on Epidemiology and Statistics, AHA Epid and Prevention Council
- 2004-2006 At-Large Member, Leadership Committee, AHA Epid and Prevention Council
- 2004 Panel Member, AHA Stroke Strategic Planning Committee
- 2004–2005 Member, Program Committee, 26<sup>th</sup> meeting, Society for Clinical Trials
- 2004-2005 Advisor, Abstract Grader, Moderator of Session on Cerebrovascular Disease in Women, American Heart Association Second International Conference on Women, Heart Disease and Stroke
- 2002 Member, NINDS Advisory Panel on Stroke Disparities; Chairperson, Subcommittee on “Bridges to Community – Assuring Ethical Conduct of Studies and Data Integrity”
- 1999–2000 Member, AHA Writing Group for Primary Prevention of Ischemic Stroke
- 1999–2000 Member, AHA Working Group/Scientific Conference on Existing Databases in Geriatric Cardiovascular Disease and Stroke
- 1996–1997 Member, AHA Writing Group/Position Paper on Carotid Stenting and Angioplasty

**PROFESSIONAL MEMBERSHIPS:**

- 2014- Gerontological Society of America
- 2011- American Academy of Neurology

- 2009- American Statistical Association
- 2008- American College of Epidemiology
- 2007- American Society of Hypertension
- 2005- National Forum on Heart Disease and Stroke Prevention
- 2005- World Stroke Organization
- 1995- National Stroke Association
- 1991- Council on Epidemiology and Prevention, American Heart Association
- 1987- Stroke Council, American Heart Association/American Stroke Association
- 1983- Society for Clinical Trials
- 1980-02 Biometric Society (Eastern North American Region-ENAR)

**HONORS AND AWARDS:**

- 2020 Distinguished Professor, awarded by Board of Trustees, Univ of Alabama
- 2018-2020 Highly Cited Researcher, Web of Science (Clarivate Analytics)
- 2017 Graduate Dean's Excellence in Mentoring Award, UAB
- 2016 First Place (Faculty/Staff Division), Annual Public Health Research Day, SOPH, UAB
- 2015 National Forum Commitment Award, National Forum for Heart Disease and Stroke Prevention
- 2015 Distinguished Faculty Investigator, School of Public Health, UAB
- 2015 Distinguished Alumni Award, St. Andrews University, Laurinburg, North Carolina
- 2015-present Elected to Board of Directors, Consortium for Southeastern Hypertension Control (COSEHC), elected to 2<sup>nd</sup> term 2018 (name change 2019 to Consortium for Southeast Health)
- 2010 Third Place, Charles Barkley Health Disparities Investigator Award, Best Oral Presentation, Fifth Annual Health Disparities Research Symposium, UAB Minority Research Center
- 2010 Elected Fellow, Society for Clinical Trials
- 2009 First Place (Faculty Division), 1<sup>st</sup> Annual Public Health Research Day, School of Public Health, University of Alabama at Birmingham
- 2008 Elected Fellow, American Heart Association Council on Epidemiology and Prevention
- 2008 Elected member, American College of Epidemiology
- 2007–2011 Elected to Board of Directors, Society for Clinical Trials
- 2006 Award from the American Heart Association for "Outstanding service given to the Statistics Committee and also her role as the founding chair of the Stroke Statistics Committee of the American Heart Association."
- 2004-2006 Elected to serve as an At-Large Member of the American Heart Association Council on Cardiovascular Disease Epidemiology and Prevention Leadership Committee
- 1995 Outstanding Leader Award, Service Unit 161; Tarheel Triad Girl Scout Council
- 1992 Elected Fellow, Stroke Council, American Heart Association
- 1991 Leadership Development Award, Tarheel Triad Girl Scout Council
- 1980–1982 HHS Traineeships, Division of Associated and Dental Health Professions



**OTHER ACTIVITIES RELATED TO SERVICE TO THE PROFESSION, THE UNIVERSITY, THE SCHOOL, AND THE COMMUNITY:**

**CURRENT ACTIVITIES:**

Chairperson, Department of Epidemiology Faculty Affairs Committee  
Member, Department of Epidemiology MPH Admissions Committee  
Member, UAB Conflict of Interest Board  
Member, Internal Advisory Board for the National Spinal Cord Injury Statistical Center  
Member, National Forum on Heart Disease and Stroke Prevention  
Volunteer, American Heart Association/American Stroke Association

**FORMER ACTIVITIES:**

Member, SOPH IT Transitions Committee, Feb 2018 – Jan 2020  
Member, Faculty Affairs Committee, SOPH UAB, Nov 2016 – Feb 2018  
Member, Search Committee for Biostatistics Chair, SOPH UAB, 2016-2017  
Member, Search Committee for Epidemiology Chair, SOPH UAB, 2015-2018  
Chairperson, Search Committee for Chronic Disease Epidemiologist, SOPH UAB, 2015-2016  
Reviewer, 25<sup>th</sup> Annual PHEHP Public Health Materials Contest, 2015  
Member, Search Committee for Pharmacoepidemiologist, SOPH UAB, 2012  
Member, Search Committee for Cardiovascular Epidemiologist, SOPH UAB, 2009-2010  
Member, Surveillance Team, National Forum on Heart Disease and Stroke Prevention, 2004-2013  
Volunteer, Community Kitchens, Birmingham, Alabama, 2010-2013  
Member, Monitoring and Evaluation Implementation Group of the National Forum, 2004-2010  
Member, Delta States Stroke Network, 2007-2010 (network closed 2010)  
Member, SOPH Dept of Epidemiology Strategic Planning Committee, 2009-2010  
Chair, Search Committee, Renal Epidemiologist, SOPH UAB 2007–2009  
Member, Delta States Stroke Consortium, 2002-2007  
Volunteer, March of Dimes, Birmingham, Alabama, 2002-2010  
Member, Admissions and Graduation Committee, SOPH UAB, 2002–2004  
Member, Communications Committee, SOPH UAB, 2002–2004  
Member, Education Committee, Society for Clinical Trials, 2000-2007  
Member, Biostatistics Search Committee, Associate/Full Professor, SOPH UAB 1999–2000  
Member, After School Science Program, Bowman Gray School of Medicine, Winston-Salem, North Carolina, 1997–1998  
Member, Oversight and Coordinating Committee for Reengineering Medical School Research Administration, Bowman Gray School of Medicine, Winston-Salem, North Carolina, 1997  
Co-Leader, Young People's Program, St. Timothy's Episcopal Church, Winston-Salem, North Carolina 1977-1986  
Volunteer, Forsyth Branch of the Cystic Fibrosis Foundation, 1982-1983  
Volunteer, Forsyth County Chapter of the March of Dimes, Winston-Salem, North Carolina, 1984, 1987, 1992, 1996–1999

- Volunteer, Ronald McDonald House, 2000–2005, Birmingham, Alabama  
Volunteer, 55<sup>th</sup> Place Thrift Store, 2001–2005, Birmingham, Alabama  
Board of Directors, Concert for Kids Co-Chairman, Winston-Salem Symphony Guild, North Carolina, 1985–1986  
Board, Episcopal Church Women, St. Timothy's Episcopal Church, Winton-Salem, North Carolina, 1988–1990  
Teaching Assistant, Fifth Annual American Statistics Project Competition, Cook Middle School, Winston-Salem/Forsyth County School System, North Carolina, 1990–1991  
Volunteer, Odyssey of the Mind, Winston-Salem/Forsyth County School System, North Carolina, 1988–1999  
Assistant Girl Scout Leader, Tarheel Triad Girl Scout Council, Colfax, North Carolina, 1987–1999; Cahaba Girl Scout Council, Birmingham, Alabama 2000–2005  
Member, Gold Award Committee, Tarheel Triad Girl Scout Council, Colfax, North Carolina, 1996–1999  
Member, Education Committee, Winston-Salem Chamber of Commerce, North Carolina, 1998–1999

**PROFESSIONAL INTERESTS:**

Research in progress includes: life course and stroke risk factors, childhood socioeconomic factors and adult cardiovascular risk factors, stroke risk/cognitive decline; quality of childhood education and later life cognitive functioning, stroke risk; sex differences in stroke; stroke symptoms and associated risk factors; factors associated with care-seeking behavior following stroke symptoms; prospective cohort studies of geographic/ racial differences in stroke incidence, case fatality, and prevalence of cerebrovascular risk factors; sex differences in outcomes following carotid revascularization.

**DESCRIPTION OF TEACHING ACTIVITIES: University of Alabama at Birmingham**

*Courses*

- Co-course master, Epidemiology of Chronic Diseases (EPI 602): Fall 2015, Fall 2016  
Independent Study (EPI 698) Topics in Cardiovascular Disease Epidemiology: Fall 2014  
Course master, Cardiovascular Disease Epidemiology (EPI 606): Summer 2006, 2008, 2010, 2012  
Course master, Epidemiology of Cardiovascular Disease (EPI 705): Spring 2004  
Co-course master, Epidemiology of Cardiovascular Disease (EPI 705): Spring 2002  
Co-course master, Data Collection, Management, and Analyses (BST 619 and 619A, 2 sessions): Spring 2000  
Member of faculty team for the Public Health Integrative Experience (SPH 690): Fall 2000  
Research Hours (EPI 699) with education PhD student Shauntice Allen Summer 2008; epidemiology MSPH student Rebecca McCracken Fall 2008, Spring 2009; epidemiology MSPH student Kimberly Kicielinski Spring 2015  
Research Hours (EPI 798) with epidemiology PhD student Rita Khoury Spring 2008; PhD student Shatomi Kerbawy Fall 2011, PhD student Karen Albright Fall 2014, Spring 2015

*Guest Lectures in the following courses:*

- Epidemiology of Cardiovascular Diseases (EPI 706): Fall 2020, Fall 2019  
Epidemiology of Cardiovascular Diseases (EPI 705): Spring 2000

Epidemiology of Chronic Diseases (EPI 602): Spring 2001, Spring 2002, Summer 2003, Summer 2004, Summer 2005, Spring 2006, Spring 2008, Spring 2009, Spring 2011, Fall 2017, Fall 2018, Fall 2019  
Data Collection, Management, and Analyses (BST 619): Spring 2001, Spring 2009  
Clinical Epidemiology program in UAB Medical School: Spring 2001  
Epidemiology Doctoral Seminar (EPI 790): Summer 2005  
Facilitator, EPI 790 Doctoral Seminar, Spring 2009  
Principles of Epidemiologic Research (EPI 610): Fall 2010  
African American Studies (AAS 420): Spring 2011, Spring 2012

*Student Advising (year graduated)*

Present Najibah Galadanci, PhD student [received two-year AHA Dissertation Award for 2020-2022]

James Dvorsky, MPH student  
Taseen Karim, MPH student  
Siddharth Jogi, MPH student  
Jessica McKenzie, MPH student  
Julie Mitchell Baird, MPH student  
Ileana G Barron, MPH student  
Jinal Patel, MPH student  
2021 Joonseok Kim, MD, MSPH  
Kenneth Muccheck, MPH  
Mohan Liu, MPH  
2019 Emily McKinley, PhD  
Akanksha Salunkhe, MPH  
Hanju Zhu, MPH  
Jianu Huang, MPH  
Jeremiah Bell, MPH  
Meka Bradshaw, MPH  
2017 Karen Albright, D.O, PhD  
Kedra Thomas, MPH  
2016 Opeyemi Osibogun, MPH  
Lauren Camp, MPH  
2015 Manpreet Rupal, MPH  
Kimberly Kicielinski, MD, MSPH  
2014 Karen Rhodes Hart, MPH  
Ifeoluwa Osewa, MPH  
2013 Andrew Douglas, MPH  
Allison Ann Gullick, MSPH  
Courtney Phillips, MPH  
2012 Emily Capilouto, MPH  
2011 Philip Musa, MPH  
Sara Gonzales, MPH  
2010 Jhankritu (Jenny) Zaveri, MPH  
Gavin Reed, MPH  
Nicholas Blackstock, MPH  
2009 Hang Le – MPH  
Rebecca McCracken – MSPH

2008 Rita Khoury – PhD, advisor 2008-2009  
Nitin Agrawal – MPH  
2006 Pallavi Ghuge – MPH  
William Jason Till, MPH

*Chair of Student Committees*

Najibah Galadanci, MD, Epidemiology PhD student, “Evaluating the turning point of cardiovascular health in sickle cell disease.” In progress.  
Joonseok “Joon” Kim, MD, Epidemiology, MSPH. “Abdominal obesity and risk of atrial fibrillation.” 2021  
Emily McKinley, Epidemiology, PhD. “Amyloid and white matter hyperintensity burden in the stroke belt.” 2019  
Karen Albright, DO, Epidemiology, PhD. “Statin prescribing, adherence, and recurrent vascular events: A study of ischemic stroke survivors.” 2017  
Kimberly Kicielinski, MD, Epidemiology, MSPH. “Effect of concurrent coil embolization on delayed Spontaneous aneurysm rupture following Pipeline Embolization Device placement.” 2015  
Allison Ann Gullick, Epidemiology, MSPH. “Impact of race and socioeconomic status on outcome after laparoscopic Roux-en-Y gastric bypass.” 2013  
Rebecca McCracken, Epidemiology, MSPH. “A look at state nurse practitioner regulations and cardiovascular risk factors.” 2009

*Member of Student Committees*

Stephanie Hart, MSN, MA, APRN, NP-C, East Carolina University School of Nursing, PhD committee. In Progress.  
Tracy Madsen, MD, Epidemiology, Brown University School of Public Health, PhD committee: “StoP STROkE: Sex-specific Prevention of Stroke Through Reproductive Risk Factors and Sex Hormone Effects.” December 2020.  
Max Pistilli, MSPH, Epidemiology and Biostatistics, Dornsife School of Public Health, Drexel University, PhD committee: “Associations of socioeconomic positions with stroke.” December 2020.  
Emily Matsuda, Epidemiology, MSPH. “Life-space and cognitive function by cardiovascular risk: A cross-sectional analysis from the REGARDS study.” 2020  
Nirav Patel, MD, Epidemiology, MSPH. In progress.  
James “Walker” Blackston, Epidemiology, MSPH. “Racial disparities in cardiovascular disease outcomes after myocardial infarction: the REasons for Geographic And Racial Differences in Stroke (REGARDS) study. 2018  
Evgenia “Rayelle” Nokovich, Epidemiology, MSPH. “Missed opportunity to identify HCV infection: HCV infected individuals are heavier users of secondary care at an urban academic institution.” 2018  
Meifang Chen, Health Behavior, PhD. “Associations of food environment Mediterranean diet and obesity in the United States: A geographic information system (GIS) analysis.” 2017  
Jesse Passler, Psychology, PhD. “The relationship of cognitive decline and impairment to the AD8 and Activities of living in the REGARDS sample.” 2017  
Erica Dawson, Biostatistics, PhD. “Performance of Ordinary Least Squares and Heteroskedasticity Consistent Covariance Matrix Estimators in Heteroskedastic Analysis of Covariance Models.” 2016  
Peter Merrill, Biostatistics, PhD. “Compliance issues in clinical trials: Partial compliance and factorial designs.” 2014  
Shauntice Allen, Health Education, PhD. “Development and content validity of a survey instrument to assess health information seeking behaviors among African-American young professionals.” 2013  
Amandiy Liwo, Epidemiology, MSPH. “Depressive Symptoms and Risk of All-cause mortality in Adults With

- and Without Diabetes.” 2014
- Marian Fintel, Epidemiology, MSPH. “Widowhood, social support and metabolic syndrome.” 2013
- Jeffrey Zimmerman, Epidemiology, MSPH. “Low proportionate cardiovascular and cancer mortality among persons with multiple sclerosis.” 2013
- Corey Wiggins, Health Promotion (School of Health Related Professions), PhD. “The association of perceived neighborhood characteristics and hypertension in the Jackson Heart Study.” 2012
- Loretta Lee, Nursing, PhD. “Evolving methods for diagnosis and treatment of prediabetes: a critical review of the literature with practical recommendations.” 2012
- David Brenner, MD, Biostatistics, MS. “Trust in physicians and vascular risk factors.” 2011.
- Shia Kent, Epidemiology, PhD. “The relationship between sunlight exposure and stroke risk, and cognitive decline.” 2011
- Martinique Perkins, Psychology, PhD. “The effects of caregiving strain on all-cause mortality.” 2010
- Tiffany Cox, Epidemiology, PhD. “The impact of weight on quality of life in African American Women.” 2010
- Emily Falk, Epidemiology, MSPH. “The predictive value of serum ca-125 within the normal range following front-line treatment in women with advanced epithelial ovarian cancer.” 2007

*External thesis examiner:*

- Sadia Mahmood, College of Health Sciences, Qatar University. MPH. “Prevalence of asymptomatic carotid artery stenosis in patients with ischemic heart disease: A systematic review and meta-analysis. Dec 2020.
- Manav Virat Vvas, PhD in Clinical Epidemiology and Health Care Research, Institute of Health Policy, Management and Evaluation, University of Toronto

*Other mentoring/sponsorship:*

- Matthew Cribbet, PhD (University of Alabama) Role of early life adversity and poor sleep in cardiovascular health disparities, Health Disparities Research Training Program (HDREP)/Deep South Resource Center for Minority Aging Research (RCMAR), 2018-present
- Jenny Cundiff, PhD (University of Alabama) Biological and psychosocial mechanisms that link lower socioeconomic position to poorer health outcomes, primarily cardiovascular health, Health Disparities Research Training Program (HDREP)/Deep South Resource Center for Minority Aging Research (RCMAR), 2018-present
- Tracy Madsen, MD (Brown University) STOP STROKE: Sex-Specific Prevention of Stroke Through Reproductive Risk Factors and Sex Hormone Effects, (K-award funded 2018), 2016-present
- Kimberly Martin, PhD (UAB), Assistant Professor of Epidemiology, Health Disparities Research Training Program, UAB, 2015-present
- Alethea Hill, PhD, ACNP-BC, ANP-BC (Univ South Alabama) Health Disparities Research Training Program, UAB, 2015-2017
- David R. Buys, Ph.D (UAB), Postdoctoral Fellow, AHRQ T32 Health Services and Outcomes Research, Center for Outcome and Effectiveness Research and Education (COERE), UAB, 2012-2014
- Megan Ruiter, PhD (UAB), Postdoctoral Fellow, AHRQ T32 Health Services and Outcomes Research, Center for Outcome and Effectiveness Research and Education (COERE), UAB, 2011-2013
- Evan Thacker, PhD (UAB), postdoctoral trainee, 2011-2013
- Thomas Chung, medical student, University of Cincinnati, Department of Neurology. [Winner of the Medical Student Essay Award: G. Milton Shy American Academy of Neurology, April 2011]
- Presentation/paper: “Smaller carotid diameter does not account for higher stroke rates in women following carotid endarterectomy – Revisiting ACAS.” 2010-2011
- Catherine K. Buchanan, 4th year medical student, Wake Forest University School of Medicine. Nature of Project: Activities related to the background and significance sections for a supplementary grant

application for the collection, storage, and analysis of blood samples for ancillary studies to the Vitamin Intervention for Stroke Prevention clinical trial. 1998

Joseph Craft, 3rd year medical student, recipient of American Heart Association Award as Student Scholar in Cardiovascular Disease and Stroke.” Nature of project: Activities related to the administrative and clinical aspects of involvement in a large multicenter clinical trial (the Vitamin Intervention for Stroke Prevention Study) and an ongoing pilot study of stability of plasma homocyst(e)ine in acute stroke patients. 1997

### **OTHER TEACHING ACTIVITIES:**

2014-5 Facilitator/Organizer: Society for Clinical Trials Invited Session at annual meeting, May 2015: Strategies for Increasing Diversity in Clinical Trials: What is New after 20 Years

2014-5 Facilitator/Organizer: Society for Clinical Trials Invited Session at annual meeting, May 2015: Improving the Quality and Sharing of Clinical Trial Data Through the Use of Common Data Standards (CDS)

2013-6 Guest Lecturer, Columbia University/NYU Langone School of Medicine, Program to Increase Diversity in Behavioral Medicine and Sleep Disorders Research (PRIDE) and the Center for Stroke Disparities Solutions (CSDS): Regarding REGARDS: Seeking the causes of geographic and racial disparities in stroke mortality and opportunities for data sharing

2014 Facilitator/Organizer: Society for Clinical Trials Pre-Conference Workshop: Best Practices and Innovations in Patient and Community Engagement in Clinical Trials

2013-4 Developer and Moderator, Society for Clinical Trials Pre-Conference Workshop: Working Together to Achieve the Best Clinical Site Performance

2010 Instructor, Study Coordinators’ Training Workshop for the Carotid Revascularization Endarterectomy versus Stenting Trial (CREST). (Also instructor and/or moderator 2000–2009, expanded and enhanced in each year, hosted at UAB in 2005.)

2005-7 Lead Instructor and Developer, Society for Clinical Trials Pre-Conference Workshops: Essentials of Clinical Trials – Part I; May 2007, Montreal, Canada (Expanded and repeat of initial workshop developed and presented May 2005, Portland, Oregon, and May 2006, Orlando, Florida) (also developer of Essentials of Clinical Trials – Part II)

2002 Developer and Instructor, Society for Clinical Trials Pre-conference Workshop: “Different Models of Randomized Clinical Trials Coordinating Centers: There’s more than one (Right) way to do it.” Washington, DC

2001 Developer and Instructor, Society for Clinical Trials Pre-Conference Workshop: “Practical Issues in Conducting Multicenter Clinical Trials.” Denver, Colorado

1999 Developer and Lead Instructor: Study Coordinators’ Training Workshops for the Vitamin Intervention for Stroke Prevention (VISP) multicenter clinical trial, Chapel Hill, North Carolina (9 workshops held from March 1997 through June 1999)

1998 Faculty facilitator, Community Continuity Course, Wake Forest University School of Medicine

1997 Faculty, Clinical Trials Management Workshop II, 2-day workshops, Continuing Medical Education, Wake Forest University School of Medicine (Also 1993, 1994, 1995)

1992 Developer and Instructor: Study Coordinators’ Training Workshops for the Asymptomatic Carotid Atherosclerosis Study (ACAS) multicenter clinical trial, Winston-Salem and Chapel Hill, North Carolina (11 workshops held from October 1987 through September 1992, and 6 half-day training updates held from April 1998 to January 1992 throughout the US.)

- 1991 Developer and Instructor: Study Coordinators' Workshop on Closeout, Analyses, and "After ACAS" Proposals, Chicago, Illinois
- 1988 Developer and Instructor: Sonographers' Workshop on the Use of Doppler Ultrasound and OPG-Gee in the Asymptomatic Carotid Atherosclerosis Study (ACAS); Winston-Salem NC 1987, Chicago 1988

**GRANTS - ACTIVE**

Multiple Principal Investigator (with Lewis, contact PI and Dransfield) (subcontract)  
Collaborative Cohort of Cohorts for COVID Research (C4R)  
NIH/National Heart Lung and Blood Institute  
PI: Oelsner (contact PI) and Barr, Columbia University  
10/01/2020-05/31/2022

Principal Investigator (subcontract)  
Educational Trajectories & Health: When people finish school and how it matters  
NIH/National Institute on Aging, R01AG056360  
PI: Irene Yen, University of California, Merced  
09/30/2018 – 08/31/2022

Co-Investigator  
VCID and Stroke in a Bi-racial National Cohort (continuation of Etiology of Geographic and Racial Differences in Stroke (REGARDS)  
NIH/National Institute of Neurological Disorders and Stroke, U01NS41588  
Multiple PIs: Suzanne Judd, PhD (contact PI), Howard G, Cushman, Manly)  
09/24/2001–01/31/2023

Co-Investigator  
The Effect of Vascular Risk Factors on Risk of Alzheimer's Disease and related Dementias after Stroke (STROKE COG)  
NIH/National Institute on Aging, RF1AG068419  
PI: Deborah Levine, University of Michigan (subcontract to UAB, PI: Ron Lazar)  
09/01/2020-08/31/2024

Co-investigator, Analysis Core [Acting PI of Core, 01/01/2019-06/30/2019]  
Deep South Resource Center for Minority Aging Research (RCMAR)  
NIH/National Institute of Aging, 5P30AG031054  
PI: Raegan Durant, MD, University of Alabama at Birmingham  
07/01/2013-06/30/2023

Co-investigator  
CREST-2 Statistical and Data Coordinating Center (SDCC)  
Carotid Revascularization and Medical Management for Asymptomatic Carotid Stenosis Trial  
NIH/ National Institute of Neurological Disorders and Stroke, U01NS080165  
PI: George Howard, University of Alabama at Birmingham  
03/15/2014-02/28/2021

Co-investigator  
Carotid Revascularization and Medical Management for Asymptomatic Carotid Stenosis Trial-

Hemodynamics (CREST-H)

NIH/National Institute of Neurological Disorders and Stroke, R01NS097876  
PI: Randy Marshall, Columbia University (subcontract to UAB, PI: George Howard)  
05/15/2017-04/30/2022

Co-investigator

Comparative Effectiveness Randomized Trial to Improve Stroke Care Delivery: C3FIT,  
Coordinated, Collaborative, Comprehensive, Family-based, Integrated, and Technology-  
enabled Care

Patient Centered Outcomes Research (PCORI) VUMC71839 (PCS-2017C3-9081)  
PI: Ken Gaines, Vanderbilt University (subcontract to UAB, George Howard, PI)  
02/01/2019 – 02/28/2024

Consultant/Faculty

The Health Equity & Actionable Disparities in Stroke: Understanding & Problem-solving  
(HEADS-UP)

NIH/NIMHD R13 MD014959, PI: Bruce Ovbiagele, Northern California Institute  
09/01/2019 – 08/31/2022

Dissertation Advisor/Mentor

Evaluating the Turning Point of Cardiovascular Health in Sickle Cell Anemia  
20PRE35210531 (Galadanci)  
01/01/2020 – 12/31/2021

**PAST GRANT HISTORY:**

Principal Investigator (subcontract)

Transitions to Family Caregiving and Its Impact on Health Indicators  
NIH/National Institute of Aging, R01 AG050609  
PI: David L Roth, Johns Hopkins University  
06/01/2016-03/31/2021

Principal Investigator

Childhood SES Factors: Impact on Age-Related Cognitive and Vascular Health  
NIH/National Institute of Aging/R01AG039588  
09/30/2011-05/31/2021

Co-investigator

Supplement to “Pathways to Lower Urinary Tract Symptoms (LUTS) Prevention: A Model for  
Public Education, Behavioral Skills, and Early Detection”  
NIH/NIDDK 3U01DK106858-05S1  
PI: Kathryn Burgio, UAB  
07/01/2019 – 06/30/2020

Co-investigator

Built Environments on Stroke Risk and Stroke Disparities in a National Sample  
NIH/ National Institute of Neurological Disorders and Stroke, R01NS092706  
Multiple PI: Natalie Colabianchi (University of Michigan)/ Suzanne Judd (UAB)  
02/01/2016-01/31/2020



Principal Investigator

Objective Measurement of Activity after Retirement in REGARDS Study Participants  
NIH/National Institute of Aging/RFP-16-018  
04/24/2017-04/24/2018

Co-investigator

Impact of disordered mineral metabolism on stroke and cognitive impairment  
NIH/NINDS  
PI: Orlando Guitierrez, MD, University of Alabama at Birmingham  
10/01/2012-09/30/2017

Co-investigator

Comprehensive Minority and Health Disparities Research Center (MHDRC)-  
NIH/NIMHD  
Overall PI: Fouad/Scarinci, University of Alabama at Birmingham  
Project 3: Improving Stroke Outcomes for African Americans: Ancillary Study to the REasons  
for Geographic and Racial Differences in Stroke (REGARDS) Study  
04/01/2012-03/31/2017

Principal Investigator

Statistical and Data Management Center, Carotid Revascularization Endarterectomy vs. Stenting  
Trial (CREST): Long Term Follow-Up  
Subcontract with Rutgers (formerly University of Medicine and Dentistry of New Jersey)  
NIH/National Institute of Neurological Disorders and Stroke, RO1 NS 38384  
PI: Thomas Brott, MD, Mayo Clinic Jacksonville/UMDNJ/Rutgers  
01/01/2012-12/31/2016

Principal Investigator

Statistical and Data Management Center, Carotid Revascularization  
Endarterectomy vs. Stenting Trial (CREST)  
Subcontract with University of Medicine and Dentistry of New Jersey (UMDNJ)  
NIH/National Institute of Neurological Disorders and Stroke, RO1 NS 38384  
PI: Thomas Brott, MD, Mayo Clinic Jacksonville/ Robert Hobson/UMDNJ  
09/01/1999–12/31/2011

Principal Investigator (subcontract), Coordinating Center

Impact of Physical Activity on Stroke and Cognitive Function in Older Adults  
NIH/National Institute of Neurological Disorders and Stroke, U01 NS061846  
PI: Steven Hooker, PhD (subcontract with University of South Carolina/Arizona State Univ)  
10/1/2008-09/30/2014

Consultant, Mid-South Transdisciplinary Collaborative Center for Health Disparities Research  
NIH/NIMHD, 1 U54 MD008176-01

PI: Mona Fouad, University of Alabama at Birmingham  
09/26/2012-07/31/2017

Principal Investigator (subcontract)

Occupational Supplement to the REGARDS Cohort Study, NIOSH (FY10OHDLZCO)  
PI: Leslie MacDonald, ScD  
10/01/09-09/30/2013

Co-investigator  
Trace Elements and Risk of Stroke: A Reason for the 'Stroke Belt'?  
NIH/NIEHS, 1R01 ES021735  
Multiple PI: Ka He/Leslie McClure, Indiana University/Drexel University  
07/01/2012-06/30/2017

Co-investigator  
Genetic Contributors to Diabetes and Dyslipidemia in African Americans  
NIH/NIDDK 1R01DK084350-1  
PI: Michele Sale, PhD (Subcontract with University of Virginia)  
08/01/2009-07/31/2011

Consultant  
Relationship of Blood Esterases, Pesticide Exposure, and Cardiovascular Disease  
NIH/National Institute of Environmental Health Sciences  
PI: Janice E. Chambers, PhD, Mississippi State University  
09/30/2006–09/30/2009

Co-Investigator  
Renal REGARDS, Ancillary study to REGARDS, funded by AmGen  
PI: David Warnock, MD/Britt Newsome, MD, Department of Nephrology UAB  
12/22/2003 - 12/21/2007

Co-Investigator  
Community Initiatives to Eliminate Stroke, US Department of Health and Human Services  
PI: George Howard, Dr.PH, UAB Department of Biostatistics  
08/2004–07/2007

Co-Investigator  
Stroke Belt Research and Intervention Network (Delta States Stroke Consortium)  
Centers for Disease Control, H75/CCH421379  
PI: Max Michael, M.D., School of Public Health, University of Alabama at Birmingham  
08/01/2002–07/31/2007

Co-Investigator and Project Director  
Vitamin Intervention for Stroke Prevention (VISP)  
NIH/National Institute of Neurological Disorders and Stroke, RO1 NS 34447  
PI: James F. Toole, M.D., Wake Forest University School of Medicine  
09/15/1996–07/31/2007

Co-Investigator and Project Director  
Asymptomatic Carotid Artery Stenosis Collaborative Study (ACAS)  
National Institute of Neurological Disorders and Stroke, RO1 NS 22611  
PI: James F. Toole, M.D., Wake Forest University School of Medicine

09/09/85–02/28/98

Consultant

Southeastern Consortium on Racial Differences in Stroke (SECORDS)  
National Institute of Neurological Disorders and Stroke, RO1 NS 29627  
PI: Kenneth Gaines, M.D.

07/01/91–06/30/93

**INVITED PRESENTATIONS:**

1. Racial and geographic distributions of stroke. National Black Caucus of State Legislators. Hilton Head, South Carolina. April 26–27, 2002.
2. Secondary Stroke Prevention: Addressing Current Controversies. American Stroke Association National Satellite Broadcast. Member of live panel segment: “Stroke epidemiology and risk factors.” Chicago, Illinois. September 24–25, 2002.
3. Homocysteine: An update for stroke prevention. Stroke Belt Consortium Annual Meeting. Orlando, Florida. October 31–November 3, 2002.
4. What’s new with stroke epidemiology and REGARDS? Tenth Annual Stroke Belt Consortium Meeting, Orlando, Florida. October 9–12, 2003.
5. Public health burden of stroke. Improving Stroke Care Conference 2004, American Heart Association, Orange Beach, Alabama. May 14–15, 2004.
6. Stroke data needs: What we know and don’t know. NHLBI/AHA Cardiovascular Data Needs Workshop, May 23–25, 2005.
7. Prevalence and importance of stroke symptoms in a stroke-free population. 13<sup>th</sup> Annual Meeting of the Stroke Belt Consortium, Orlando, Florida. October 2006.
8. Is South Carolina buckling the Stroke Belt? 10<sup>th</sup> Annual Brain Attack Conference, Spartanburg, South Carolina. December 7, 2006.
9. Stroke symptoms in the general population: How common are they and what do they mean? Neurology Grand Rounds, Medical College of Georgia, Augusta, Georgia, March 29, 2007.
10. Seeking the causes of geographic and racial disparities in stroke mortality: The REasons for Geographic and Racial Differences in Stroke (REGARDS) Study: Preliminary findings from the Alabama cohort. CVD Branch, Alabama State Health Department, Montgomery, Alabama, February 6, 2008.
11. Seeking the causes of geographic and racial disparities in stroke mortality: The REasons for Geographic and Racial Differences in Stroke (REGARDS) Study. Department of Health Behavior, Thursday’s Topic Seminar Series, School of Public Health, University of Alabama at Birmingham, March 20, 2008.
12. Stroke Symptoms: How common are they and do we care? Journal Club, Comprehensive Stroke Center, University of Alabama at Birmingham, August 26, 2008.

13. The REGARDS Study: How we were seeking the causes of stroke disparities and (also) became a national longitudinal epidemiologic study of cognitive change. Psychiatry Grand Rounds, University of Alabama at Birmingham, September 16, 2008.
14. Seeking the causes of geographic and racial disparities in stroke mortality: The REasons for Geographic and Racial Differences in Stroke (REGARDS) Study. Neurology Grand Rounds, University of Alabama at Birmingham, September 16, 2008.
15. The spectrum of disparities in stroke: The role of public health. National Public Health Stroke Summit, National Stroke Association, November 14, 2008. Denver, Colorado.
16. Stroke in various ethnic groups. 15<sup>th</sup> Annual Stroke Belt Consortium meeting, Orlando, Florida. December 15, 2008.
17. Stroke epidemiology: What has REGARDS shown us? 16<sup>th</sup> Annual Stroke Belt Consortium meeting, Orlando, Florida. November 9, 2009.
18. Carotid stenting vs. carotid endarterectomy: CREST Update. 16<sup>th</sup> Annual Stroke Belt Consortium meeting. Orlando, Florida. November 10, 2009.
19. Regarding REGARDS: The REasons for Geographic and Racial Differences in Stroke study. UAB School of Public Health, Epidemiology Seminar, November 30, 2009.
20. The REGARDS study and its implications for heart disease and stroke prevention. Science Seminar Series, Division for Heart Disease and Stroke Prevention, Centers for Disease Control and Prevention (CDC), Atlanta, GA, December 7, 2010.
21. Stroke symptoms: What they mean for stroke risk. 17<sup>th</sup> Annual Stroke Belt Consortium meeting. Orlando, Florida. March 11, 2011.
22. Overview of a national stroke epidemiologic study (REGARDS) and Rehabilitation Implications. Alabama Association of Rehabilitation Nurses' Spring Conference. April 8, 2011.
23. Seeking the causes of geographic and racial disparities in stroke mortality: The REasons for Geographic and Racial Differences in Stroke (REGARDS) Study. Neurology Grand Rounds, University of Virginia, Charlottesville, Virginia, December 12, 2011.
24. The Outcomes of Men and Women in the Carotid Revascularization Carotid Revascularization Endarterectomy vs. Stenting Trial (CREST). Part of an invited session at the AHA/ASA International Stroke Conference, Stroke in Women, New Orleans, LA, February 2, 2012.
25. Opportunities to assess the role of diabetes in CVD risk using the REGARDS data. Diabetes Research Center Symposium, University of Alabama at Birmingham, May 1, 2012.
26. Stroke Symptoms: Implications for screening for occult disease. College of Allied Health Sciences, Special Seminar, Medical University of Georgia, Augusta, GA, August 19, 2012

27. Stroke symptoms: Implications for screening for occult disease. Neurology Grand Rounds, Medical University of South Carolina, Charleston, SC, September 7, 2012.
28. How can the same be so different? Results from the CREST Trial. Cardiology Grand Rounds, School of Medicine, University of Alabama at Birmingham, September 19, 2012.
29. The effect of duration and age at exposure to the stroke belt on incident stroke in adulthood. Stroke Belt Consortium, Orlando, Florida, October 26, 2012.
30. Design alternatives and opportunities for studies in cardiovascular epidemiology. Department of Medicine Grand Rounds, Medical University of Lodz, Lodz, Poland. November 29, 2012.
31. REGARDS: An overview of a secondary dataset for analysis. Deep South Resource Center for Minority Aging Research (RCMAR), University of Alabama at Birmingham, March 7, 2013.
32. What is it about your stroke risk and where you live (and when you lived there)? Neurology Grand Rounds, Medical University of South Carolina, Charleston, SC, August 22, 2013.
33. Alabama update on stroke prevention and treatment activities. Stroke Belt Consortium, Orlando, Florida. February 28-29, 2014.
34. Heart disease and stroke statistics in older adults – Comparisons between US and Europe. Age-related Cardiovascular and Respiratory Disease Workshop of the Healthy Aging Research Centre, Medical University of Lodz, Lodz, Poland, May 23-24, 2014.
35. Stroke Disparities: Novel Findings from the REGARDS Study. Guest presenter at: Closing the Gap in Stroke Disparities: Treatment, Prevention and Future Directions. Columbia University/Harlem Hospital Center, New York, NY. September 19, 2014.
36. Stroke symptoms: Implications for screening for occult vascular disease. UAB Comprehensive Cardiovascular Center and Division of Cardiovascular Disease Research Conference Series, School of Medicine, University of Alabama at Birmingham, September 25, 2014.
37. Apparent treatment resistant hypertension among individuals with history of stroke or transient ischemic attack. Vascular Biology & Hypertension Seminar, University of Alabama at Birmingham, January 23, 2015.
38. Implementing a Direct Mail Accelerometer Protocol in a Large Cohort of White and Black Older Adults, Symposium on “Accelerometer-derived Physical Activity in Older Adults” at the American College of Sports Medicine Annual Meeting, May 29, 2015, San Diego, California.
39. Alabama Update on Stroke, 2015. Stroke Belt Consortium annual meeting. September 19, 2015, Orlando, Florida.
40. Representation of Women in Carotid Trials. American Heart Association Scientific Sessions, November 8, 2015, Orlando, Florida.

41. Best of Public Health and Stroke Epidemiology from the 2015 International Stroke Conference. American Heart Association Scientific Sessions, November 8, 2015, Orlando, Florida.
42. Design of REGARDS, a national, longitudinal cohort study of black and white adults to study disparities. Part 1 of 5 part invited symposium, A national, longitudinal population-based study of cognitive functioning (presenter, moderator, organizer). The Gerontological Society of America Annual Meeting, November 20, 2015, Orlando, Florida.
43. Closing the Gap in Stroke Disparities: What We Know and Don't Know. 2<sup>nd</sup> Annual Stroke Systems of Care Symposium hosted by Mobile Infirmary and Genentech. March 11, 2016, Renaissance Mobile Riverview Plaza Hotel, Mobile, Alabama
44. Building an International Working Group on Stroke in Women. WISE (Women Initiative for Stroke in Europe) group meeting at the European Stroke Organisation Conference, Barcelona, Spain, May 12, 2016.
45. Patient and Hospital Characteristics Associated with Assessing Stroke Patients for Rehabilitation During Acute Stroke Hospitalization: Findings from the National REGARDS Study. Physical Medicine and Rehabilitation Grand Rounds, UAB School of Medicine, November 4, 2016.
46. Stroke by the Numbers. YoungStroke 2016: Return to Function conference. Dec 13-14, Omni Hotel, Jacksonville, Florida.
47. What the Numbers Say: Comparative Analysis of Stroke Epidemiology in Young Adults. Part of invited symposium on Redefining the Continuum of Stroke Care for Working Age Adults. AHA/ASA International Stroke Conference, February 22, 2017, Houston, Texas.
48. Recent Insights into the Epidemiology of Stroke among African Americans. Part of invited symposium on Stroke Risk and Outcomes in People of African Ancestry (an American Heart Association/American Stroke Association and Nigerian Stroke Society Joint Session). AHA/ASA International Stroke Conference, February 22, 2017, Houston, Texas.
49. Addressing Racial and Ethnic Disparities in Stroke Care: Care Transitions, Rehabilitation, and Recovery. Part of invited symposium at the AHA/ASA International Stroke Conference, February 26, 2018, Los Angeles, California.
50. What is it about your stroke risk and where you lived (and when you lived there)? Vascular Biology & Hypertension Seminar, University of Alabama at Birmingham, February 9, 2018.
51. Early life stressors and adult cardiovascular health in the Reasons for Geographic and Racial Differences in Stroke (REGARDS) Study. UAB Comprehensive Center for Healthy Aging Symposium, April 26, 2018. [1 of three abstracts selected for oral presentation]
52. What the numbers say: A comparative analysis of stroke epidemiology in women compared to men. Part of a symposium at the annual meeting of the Organization for the Study of Sex Differences entitled: Sex differences in Cerebrovascular Disease: Epidemiology to Epigenetics. April 30, 2018, Atlanta, Georgia.

53. Reducing Disparities in Prevention and Treatment of Stroke in Women and Minority Populations. Part of an invited session at AHA Scientific Sessions: The Intersection of Aging, Sex, Race, and Ethnicity: The Burden of CVD in the Elderly. November 11, 2018, Chicago, Illinois.
54. Update on PROWESS (Prevention and Outcomes in Women Enhancing Stroke Support) Working Group. AHA/ASA International Stroke Conference. Stroke Central Exhibit Hall, February 7, 2019, Honolulu, Hawaii.
55. Ancillary Studies in REGARDS: Oh, the places you'll go! Seminar Series Research Methods & Secondary Data Analysis Seminars Series, sponsored by MHRC, RCMAR, CCTS, and COERE. UAB, Birmingham, Alabama April 4, 2019.
56. Stroke Prevention in Women vs. Men: Sex Differences in the Impact of Risk Factors (with some sex-race differences, too). 11<sup>th</sup> Annual Yatsu Day Symposium: Women and Stroke - Evaluation and Treatment of Cerebrovascular Disease. September 27, 2019, University of Texas McGovern Medical School at Houston Texas.
57. Early Life Contributions to Later Life Health Disparities. UAB Aging Symposium: From Chromosomes to Communities: Integrating Aging Research. October 9, 2019. Birmingham, AL
58. Considerations in Cognitive Assessments in Disparate Populations. Invited session at the American Stroke Association International Stroke Conference, Los Angeles, CA: Screening for Cognition and Factors Related to Brain Health. February 20, 2020.
59. Design of REGARDS: A national cohort of black and white adults to study disparities in stroke and cognitive function. Part of symposium at GSA Annual Scientific Meeting, November 6, 2020.
60. Opportunities for more aging and disparities research, mentoring, and data sharing with REGARDS. Part of symposium at GSA Annual Scientific Meeting, November 6, 2020.

## **BIBLIOGRAPHY:**

### **CHAPTERS IN BOOKS:**

1. Toole JF, **Howard VJ**, Grizzle J, Chambless LE (for the Asymptomatic Carotid Atherosclerosis Study Group). The randomized prospective trial of endarterectomy for asymptomatic carotid atherosclerosis. In: Veith FJ, ed. *Current critical problems in vascular surgery*. St. Louis MO: Quality Medical Publishing Inc., 1989:567–572.
2. **Howard VJ**, Toole JF for the Asymptomatic Carotid Atherosclerosis Study Group. Status of the Asymptomatic Carotid Atherosclerosis Study: A prospective randomized clinical trial of carotid endarterectomy for asymptomatic carotid stenosis. In: Veith FJ, ed. *Current critical problems in vascular surgery*. St. Louis MO: Quality Medical Publishing Inc., St. Louis, Missouri: 1994;284–289.
3. **Howard VJ**. Design and current status of the Asymptomatic Carotid Atherosclerosis Study. In: Moore WS, ed. *Surgery for cerebrovascular disease*. 2nd ed. W.B. Saunders, Inc., 1996.

4. **Howard VJ**, Howard G. Nonmodifiable risk factors for stroke: age, race, sex, and geography. In: Gorelick PB and Alter M., eds. *Stroke Prevention*. Parthenon Publishing, 2002.
5. Howard G, **Howard VJ**. Stroke incidence, mortality and prevalence. In: Gorelick PB and Alter M., eds. *Stroke Prevention*. Parthenon Publishing, 2002.
6. Howard G, **Howard VJ**. Distribution of stroke: heterogeneity of stroke by age, race, and sex. Chapter 1 in: JP Mohr, D Choi, JC Grotta, B Weir, and PA Wolf, eds. *Stroke: Pathophysiology, diagnosis, and management*. 4<sup>th</sup> ed. Harcourt Health Sciences Company, 2004.
7. Howard G, Shelton BJ, **Howard VJ**. Statistical and experimental design issues in the evaluation of carotid stenting. In: Roubin GS, Al-Mubarak N, Iyer SS, Vitek JJ, Eds. *Carotid artery stenting: current practice and techniques*. Lippincott, Williams, & Wilkins Co., 2004.
8. Howard G, **Howard VJ**. Stroke epidemiology. In: Goldstein LB, ed. *A primer on stroke prevention and treatment: An overview based on AHA/ASA Guidelines*. Wiley-Blackwell, Inc., 2009.
9. **Howard VJ**, Howard G. Distribution of stroke: heterogeneity of stroke by age, race, and sex. Chapter 14, of Section II: Epidemiology and Prevention in: JP Mohr, D Choi, JC Grotta, B Weir, and PA Wolf, eds. *Stroke: Pathophysiology, diagnosis, and management*. 5<sup>th</sup> ed. Philadelphia: Elsevier; 2011.
10. **Howard VJ**. Stroke, epidemiology, Chapter 606 in *Encyclopedia of Neurological Sciences*, 2<sup>nd</sup> edition. Editors-in-chief: Michael J. Aminoff and Robert B. Daroff. Elsevier Limited, United Kingdom. 2013.
11. **Howard VJ**, Ruitter Petrov ME, Dudenbostel T, Glasser SP. Stroke and hypertension in high risk African-Americans. In: Ferdinand K, ed. *Hypertension in high risk African-Americans*. Springer, 2015.
12. **Howard VJ**. Stroke Epidemiology and Impact: Mortality, Incidence, Prevalence, Stroke Subtypes, Sex, Race/Ethnicity, Geography U.S. and World. In: *Neurobiology of Disease*, 2<sup>nd</sup> edition. Editors: Michael V Johnston, Harold P Adams, Seyed Ali Fatemi. Oxford University Press, 2015.
13. Howard G, **Howard VJ**. Stroke Disparities. Chapter 14, of Section II: Epidemiology and Risk Factors in: Grotta JC et al eds. *Stroke: Pathophysiology, diagnosis, and management*. 6<sup>th</sup> ed. Philadelphia: Elsevier; 2015.
14. **Howard VJ**. Cerebrovascular Disease: Stroke Epidemiology and Impact: Mortality, Incidence, Prevalence, Stroke Subtypes, Sex, Race/Ethnicity, Geography U.S. and World. In: *Neurobiology of Disease*, 3<sup>rd</sup> edition. Editors: Michael V Johnston, et al. Oxford University Press, 2016.
15. **Howard VJ**. Stroke, Epidemiology. In Reference Module in Neuroscience and Biobehavioral Psychology, Elsevier, 2018. ISBN 9780128093245
16. Howard G, McCullough LD, **Howard VJ**. Stroke Disparities. Chapter 14 of Section 2: Epidemiology and Risk Factors in: Grotta JC et al eds. *Stroke: Stroke: Pathophysiology, diagnosis, and management*. 7<sup>th</sup> ed. Philadelphia: Elsevier; 2021.



17. **Howard VJ.** Epidemiology of cardiovascular disease in African Americans. Chapter 17 in: Cardiovascular disease in racial and ethnic minorities. Ferdinand KC and Armani AM, eds. Springer Nature. In press 2021.

**JOURNAL ARTICLES:**

1. Richards F II, Muss HB, Cooper MR, White DR, Stuart JJ, **Howard V**, Barnes P, Rhyne L, Spurr CL. Chemotherapy versus chemoimmunotherapy in advanced adenocarcinoma of the colon and rectum: a prospective randomized study. *Cancer* 1979;43:91–96.
2. White DR, Maloney JJ III, Muss HB, Vance RP, Barnes P, **Howard V**, Rhyne L, Cowan RJ. Serum alkaline phosphatase determination: value in the staging of advanced breast cancer. *JAMA* 1979;242:1147–1149.
3. Cooper MR, Heise ER, Richards F II, Muss HB, White DR, Rhyne L, **Howard V**, Charles CL. A prospective study of histocompatible leukocyte and platelet transfusions during induction chemotherapy of adult acute nonlymphocytic leukemia. *Med Pediatr Oncol* 1981;9:225–234.
4. Muss HB, **Howard V**, Richards F II, White DR, Jackson DC, Cooper MR, Stuart JJ, Resnick MI, Brodtkin R, Spurr CL. Cyclophosphamide versus cyclophosphamide, methotrexate, and 5-fluorouracil in advanced prostatic cancer: a randomized trial. *Cancer* 1981;47:1949–1953.
5. Cooper MR, Rhyne AL, Muss HB, Ferree C, Richards F II, White DR, Stuart JJ, Jackson DV, **Howard V**, Shore A, Spurr CL. A randomized comparative trial of chemotherapy and irradiation therapy for stage II breast cancer. *Cancer* 1981;47:2833–2839.
6. Muss HB, Richards F II, Cooper MR, White DR, Jackson DV, Stuart JJ, **Howard V**, Shore A, Rhyne AL, Spurr CL. Chemotherapy vs. chemoimmunotherapy with methanol extraction residue of bacillus calmette-guerin (MER) in advanced breast cancer: a randomized trial by the Piedmont Oncology Association. *Cancer* 1981;47:2295–2301.
7. Richards F II, **Howard V**, Shore A, Muss HB, White DR, Jackson DV, Cooper MR, Bearden J, Stuart JJ, Sartiano G, Rhyne AL, Spurr CL. Combination chemotherapy with and without the methanol-extracted residue of bacillus calmette-guerin (MER) in extensive non-small-cell lung cancer: a prospective randomized study for the Piedmont Oncology Association. *Cancer* 1981;47:2827–2832.
8. Biller J, Challa VR, Toole JF, **Howard VJ.** Nonbacterial thrombotic endocarditis: a neurologic perspective of clinicopathological correlations of 99 patients. *Arch Neurol* 1982;39:95–98.
9. Till JS, Toole JF, **Howard VJ.** Physicians' attitudes: management of carotid artery plaques, murmurs, and transient ischemic attacks. *Arch Neurol* 1985;42:1198–1201.
10. Ford CS, **Howard VJ**, Howard G, Frye JL, Toole JF, McKinney WM. The sex difference in manifestations of carotid bifurcation disease. *Stroke* 1986;17:877–881.
11. Till JS, Toole JF, **Howard VJ**, Ford CS, Williams D. Declining morbidity and mortality of carotid endarterectomy: The Wake Forest University Medical Center experience. *Stroke* 1987;18:823–829.

12. Toole JF, **Howard VJ**, Grizzle J, Chambless LE (for the Asymptomatic Carotid Atherosclerosis Study Group). Study design for randomized prospective trial of carotid endarterectomy for asymptomatic atherosclerosis. *Stroke* 1989;20:844–849.
13. **Howard VJ**, Howard G, Harpold GJ, Nunn CL, Myers LG, McKinney WM, Murros KE, Toole JF. Correlation of carotid bruits and carotid atherosclerosis detected by B-mode real time ultrasonography. *Stroke* 1989;20:1331–1335.
14. Moore WS, Vescera CL, Robertson JT, Baker WH, **Howard VJ**, Toole JF. Selection process for surgeons in the Asymptomatic Carotid Atherosclerosis Study (ACAS). *Stroke* 1991;22:1353–1357.
15. Howard G, Chambless LE, Baker WH, Ricotta JJ, Jones AM, O'Leary D, **Howard VJ**, Elliot TH, Lefkowitz DS, Toole JF. A multicenter validation study of Doppler ultrasound versus angiogram. *J Stroke Cerebrovasc Dis* 1991;1:166–173.
16. **Howard VJ**, Grizzle J, Diener HC, Hobson RW, Mayberg MR, Toole JF. Comparison of multicenter study designs for investigation of efficacy of carotid endarterectomy. *Stroke* 1992;23:583–593.
17. Lefkowitz DS, Brust JCM, Goldman L, Johnson JL, Toole JF, **Howard VJ**, Chambless LE. A pilot study of the end point verification system in the Asymptomatic Carotid Atherosclerosis Study (ACAS). *J Stroke Cerebrovasc Dis* 1992; 2:92–99.
18. Executive Committee for the Asymptomatic Carotid Atherosclerosis Study. Endarterectomy for asymptomatic carotid artery stenosis. *JAMA* 1995;273:1421–1428.
19. Howard G, Evans GW, Pearce K, **Howard VJ**, Bell RA, Mayer EJ, Burke GL. Is the Stroke Belt disappearing? An analysis of racial, temporal, and age effects. *Stroke* 1995;26:1153–1158.
20. Howard G, Russell GB, Anderson R, Evans GW, Morgan T, **Howard VJ**, Burke GL. Role of social class in excess black stroke mortality. *Stroke* 1995;26:1759–1763.
21. Moore WS, Young B, Baker WH, Robertson JT, Toole JF, Vescera CL, **Howard VJ** and the ACAS investigators. Surgical results: A justification of the surgeon-selection process for the ACAS trial. *Journal of Vascular Surgery* 1996;23:323–328.
22. Dean BL, Lefkowitz DC, **Howard VJ**, Frey JF, Schwartz S, Chambless LE, Heiserman JE, Feinberg WM, Toole JF. Comparison of centralized versus "site-based" measurement of angiographic stenosis for eligibility in the Asymptomatic Carotid Atherosclerosis Study. *Investigative Radiology* 1996;31: 446–450.
23. Howard G, Baker WH, Chambless LE, **Howard VJ**, Jones AM, Toole JF for the ACAS investigators. An approach for the use of Doppler ultrasound as a screening tool for hemodynamically significant stenosis (despite heterogeneity of Doppler Performance): A multicenter experience. *Stroke* 1996;27:1951–1957.
24. Karanjia PN, Nelson JJ, Lefkowitz DS, Dick AR, Toole JF, Chambless LE, Hayes R, **Howard VJ**. Validation of the ACAS TIA/Stroke algorithm. *Neurology* 1997;48:346–351.

25. Chambless LE, Hosking JD, Kronmal R, Howard G, **Howard VJ**, Toole JF for the ACAS Executive Committee and the ACAS Data and Safety Monitoring Committee. Clearing up misunderstandings about clinical trial methodology: A reply to Barnett et al's commentary on the ACAS trial. *Neurology*, 1997;48:1743–1745.
26. Howard G, Anderson R, Johnson NJ, Sorlie P, Russell G, **Howard VJ**. Evaluation of social status as a contributing factor to the stroke belt region of the United States. *Stroke* 1997;28:936–940.
27. Bettmann MA, Katzen BT, Whisnant J, Brant-Zawadzki M, Broderick JP, Furlan AJ, Hershey LA, **Howard V**, Kuntz R, Loftus CM, Pearce W, Roberts A, Roubin G. Carotid Stenting and Angioplasty: A statement for healthcare professionals from the Councils on Cardiovascular Radiology, Stroke, Cardio-Thoracic and Vascular Surgery, Epidemiology and Prevention, and Clinical Cardiology, American Heart Association. *Circulation* 1998;97:121–123. (Three simultaneous citations: also published in *J Vasc Interv Radiol* 1998 and *Stroke* 1998)
28. Howard G, Anderson RT, Russell G, **Howard VJ**, Burke GL. Race, socioeconomic status, and cause-specific mortality. *Annals of Epidemiology* 2000;10:214–223.
29. Pettigrew LC, Thomas N, **Howard VJ**, Veltkamp R, Toole JF for the ACAS Investigators. Low minimal status predicts mortality in asymptomatic carotid arterial stenosis. *Neurology* 2000;55:30–34.
30. Baker WH, **Howard VJ**, Howard G, Toole JF for the ACAS Investigators. Effect of contralateral occlusion on long-term efficacy of endarterectomy in the Asymptomatic Carotid Atherosclerosis Study (ACAS). *Stroke* 2000;31:2330–2334.
31. Goldstein LB, Adams R, Becker K, Furberg CD, Gorelick PB, Hademenos G, Hill M, Howard G, **Howard VJ**, Jacobs B, Levine SR, Mosca L, Sacco RL, Sherman DG, Wolf PA, del Zoppo, GJ. Primary prevention of ischemic stroke: A statement for healthcare professionals from the Stroke Council of the American Heart Association. *Stroke* 2001;32:280–299. (Two simultaneous citations: also published in *Circulation* 2001)
32. Spence JD, **Howard VJ**, Chambless LE, Malinow MR, Pettigrew LC, Stampfer M, Toole JF for the VISP Investigators. Vitamin Intervention for Stroke Prevention (VISP) Trial: Rationale and design. *Neuroepidemiology* 2001;20:16–25.
33. Hobson II RW, **Howard VJ**, Brott TG, Howard G, Roubin GS, Ferguson RDG for the CREST Executive Committee. Organizing the Carotid Revascularization Endarterectomy versus Stenting Trial (CREST): National Institutes of Health, Health Care Financing Administration, and industry funding. *Current Controlled Trials in Cardiovascular Medicine* 2001;2:160–164.
34. Howard G, **Howard VJ**, Katholi C, Oli M, Houston S. Decline in stroke mortality – an analysis of temporal patterns by sex, ethnicity, and geographic region. *Stroke* 2001;32:2213–2220.
35. Howard G, **Howard VJ**. Ethnic disparities in stroke: the scope of the problem. *Ethnicity & Disease* 2001;11(2), 761–768.

36. **Howard VJ**, Sides EG, Newman GC, Cohen SN, Howard G, Malinow MR, Toole JF for the Stability of Plasma Homocyst(e)ine in Acute Stroke Patients (SHASP) study investigators. Changes in plasma homocyst(e)ine in the acute phase after stroke. *Stroke* 2002;33:473–478.
37. Toole JF, Malinow MR, Chambless LE, Spence JD, Pettigrew LC, **Howard VJ**, Sides EG, Wang C, Stampfer M. Lowering homocysteine in patients with ischemic stroke to prevent recurrent stroke, myocardial infarction, and death: The Vitamin Intervention for Stroke Prevention (VISP) randomized controlled trial. *JAMA* 2004;291:565–575.
38. Hobson RW II, **Howard VJ**, Howard G, Brott TG, Sheffet AJ, Roberts J, Roubin GS, Ferguson RDG, Hopkins LN, Moore WS for the CREST Investigators. Credentialing of surgeons as interventionalists for carotid artery stenting: Experience from the lead-in phase of CREST (Carotid revascularization endarterectomy vs. stenting trial). *J Vasc Surg* 2004;40:952–7.
39. Hobson RW, **Howard VJ**, Roubin GS, Ferguson RDG, Brott TG, Popma JJ, Graham DL, Howard G for the CREST Investigators. Carotid artery stenting is associated with increased complications in octogenarians: 30-day stroke and death rates in the CREST lead-in phase. *J Vasc Surg* 2004;40:1106–11.
40. **Howard VJ**, Cushman M, Pulley L, Gomez C, Go R, Prineas RJ, Graham A, Moy CS, Howard G. The Reasons for Geographic And Racial Differences in Stroke (REGARDS) Study: Objectives and Design. *Neuroepidemiology* 2005;25:135–143.
41. Warnock DG, McClellan M, McClure LA, Newsome B, Campbell RC, Audhya P, Cushman M, **Howard VJ**, Howard G. Prevalence of chronic kidney disease and anemia among participants in the REasons for Geographic And Racial Differences in Stroke (REGARDS) cohort study: Baseline results from Renal REGARDS. *Kidney International* 2005;68:1427–1431.
42. Lutsep HL, Campbell S, Chambless LE, **Howard VJ**, Toole JF. Plasma total homocysteine levels in stroke patients screened for the Vitamin Intervention for Stroke Prevention clinical trial in the era of folate fortification. *Neuroepidemiology* 2006;26:45–51.
43. Thom T, Haase N, Rosamond W, **Howard VJ**, Rumsfeld J, Manolio T, Zheng Z, Flegal K, O'Donnell C, Kittner S, Lloyd-Jones D, Goff DC, Hung Y, Adams R, Friday G, Furie K, Gorelick P, Kissela B, Marler J, Meigs J, Roger V, Sidney S, Sorlie P, Steinberger J, Wasserthiel-Smoller S, Wilson M, Wolf P; American Heart Association Statistics Committee and Stroke Statistics Subcommittee. Heart disease and stroke statistics--2006 Update. A Report from the American Heart Association Statistics Committee and Stroke Statistics Subcommittee. *Circulation* 2006;113:e85–151.
44. McClellan W, Warnock DG, McClure LA, Campbell RC, Newsome BB, **Howard VJ**, Cushman M, Howard G. Racial differences in the prevalence of chronic kidney disease among participants in the REasons for Geographic and Racial Differences in Stroke (REGARDS) study. *J Am Soc Nephrol* 2006;17:1710–1715.
45. Howard G, Prineas RJ, Moy CS, Cushman M, Kellum M, Temple E, Graham A, **Howard VJ**. Racial and geographic differences in awareness, treatment and control of hypertension: the REasons for Geographic and Racial Differences in Stroke (REGARDS) study. *Stroke* 2006;37:1171–1178.
46. **Howard VJ**, McClure LA, Meschia JF, Pulley L, Orr SC, Friday GH. The high prevalence of stroke

- symptoms among persons without a diagnosis of stroke or TIA in a general population: The REasons for Geographic And Racial Differences in Stroke (REGARDS) Study. *Arch Int Med* 2006;166:1952–1958.
47. Barnes RW, Toole JF, Nelson JJ, **Howard VJ**. Neural networks for ischemic stroke. *J Stroke Cerebrovasc Dis* 2006;15:223–227.
  48. **Howard VJ**, Furie KL, Wang C, Sides EG, Toole JF. The changing risk factor profile of participants enrolled in a secondary stroke prevention trial. The Vitamin Intervention for Stroke Prevention (VISP) Trial. *Neuroepidemiology* 2006;27(4):222–9.
  49. Goff DC Jr., Brass L, Braun LT, Croft JB, Flesch JD, Fowkes FG, Hong Y, **Howard V**, et al. Essential features of a surveillance system to support the prevention and management of heart disease and stroke: a scientific statement from the AHA Councils on Epidemiology and Prevention, Stroke, and Cardiovascular Nursing and the Interdisciplinary Working Groups on Quality of Care and Outcomes Research and Atherosclerotic Peripheral Vascular Disease. *Circulation* 2007;115:127–55.
  50. Rosamond W, Flegal K, Friday G, Furie K, Go A, Greenlund K, Haase N, Ho M, **Howard V**, et al. Heart disease and stroke statistics – 2007 update: a report from the American Heart Association Statistics and Stroke Statistics Subcommittee. *Circulation* 2007;115:e69–171.
  51. Wadley V, McClure LA, **Howard VJ**, Unverzag FW, Go RC, Moy CS, Crowther, MR, Gomez CR, Howard G. Cognitive status, stroke symptom reports, and modifiable risk factors among individuals with no diagnosis of stroke or TIA in the REasons for Geographic and Racial Differences in Stroke (REGARDS) Study. *Stroke* 2007;38:1143–47.
  52. McClellan W, Speckman R, McClure L, **Howard V**, Campbell RC, Cushman M, Audhya P, Howard G, Warnock DG. Prevalence and characteristics of a family history of end-stage renal disease (ESRD) among adults in the United States population: The REasons for Geographic And Racial Differences in Stroke (REGARDS) Renal cohort study. *J Am Soc Nephrol* 2007;18:1344–1352.
  53. Howard G, Safford MM, Meschia JF, Moy CS, **Howard VJ**, Pulley L, Gomez CR, Crowther M. Stroke symptoms in individuals reporting no prior stroke or transient ischemic attack are associated with a decrease in indices of mental and physical functioning. *Stroke* 2007;38:2446–2452.
  54. Levine DA, Kiefe CI, Howard G, **Howard VJ**, Williams OD, Allison JJ. Reduced medication access: A marker for vulnerability in US stroke survivors. *Stroke* 2007;38:1557–1564.
  55. Houser SH, **Howard VJ**, Hovater MK, Safford MM. Obtaining medical records from healthcare facilities under the HIPAA privacy rule: The experience of a national longitudinal cohort study. *Neuroepidemiology* 2007;28:162–168.
  56. Howard G, Labarthe DR, Hu J, Yoon S, **Howard VJ**. Regional differences in African Americans' high risk for stroke: The remarkable burden of stroke for southern African Americans. *Annals of Epidemiology* 2007;17(9):689–696.
  57. Rosamond W, Flegal K, Furie K, Go A, Greenlund K, Haase N, Hailpern SM, Ho M, **Howard V**, et al for the American American Heart Association Statistics Committee and Stroke Statistics Subcommittee. Heart disease and stroke statistics--2008 Update. A Report from the American Heart Association

- Statistics Committee and Stroke Statistics Subcommittee. *Circulation* 2008;117(4):e25-146.
58. Pettigrew LC, Bang H, Chambless LE, **Howard VJ**, Toole JF for the VISP Investigators. Assessment of pre- and post-methionione load homocysteine for prediction of recurrent stroke and coronary artery disease in the Vitamin Intervention for Stroke Prevention trial. *Atherosclerosis*. 2008 Oct;200(2):345-9. [PMCID: PMC3458646]
59. **Howard VJ**, Lackland DT, Lichtman JH, McClure LA, Howard G, Wagner L, Pulley L, Gomez CR. Care seeking after stroke symptoms. *Annals of Neurology* 2008;63(4):466-72. [PMCID: PMC18360830]
60. Pullicino PM, Wadley VG, McClure LA, Safford MM, Lazar RM, Klapholz M, Ahmed A, **Howard VJ**, Howard G. Factors contributing to global cognitive impairment in heart failure: Results from a population based cohort. *J Cardiac Failure* 2008;14(4):290-5. [PMCID: PMC2730643]
61. Glasser SP, Cushman M, Prineas R, Kleindorfer D, Prince V, You Z, **Howard V**, Howard G. Does differential prophylactic aspirin use contribute to racial and geographic disparities in stroke and coronary heart disease (CHD)? *Prev Med* 2008;47(2):161-6. [PMCID: PMC2556126]
62. Cushman M, Cantrell RA, McClure LA, Howard G, Prineas RJ, Moy CS, Temple EM, **Howard VJ**. Estimated 10-year stroke risk by region and race in the United States. *Annals of Neurology* 2008; 64;(5):507-13. [PMCID: PMC202965]
63. Lloyd-Jones D, Adams R, Carnethon M, De Simone G, Ferguson B, Flegal K, Ford E, Furie K, Go A, Greenlund, Haase N, Hailpern S, Ho M, **Howard VJ**, et al. for the American Heart Association Statistics Committee and Stroke Statistics Subcommittee. Heart Disease and Stroke Statistics—2009 Update. A report from the American Heart Association Statistics Committee and Stroke Statistics Subcommittee. *Circulation* 2009;119:480-486.
64. Lichtman JH, Jones SB, Watanabe E, Allen NB, Wang Y, **Howard VJ**, Goldstein LB. Elderly women have lower rates of stroke, cardiovascular events, and mortality following hospitalization for TIA. *Stroke* 2009; 40(6):2116-2122. [PMCID: PMC2757938]
65. **Howard VJ**, Voeks JH, Lutsep HL, Mackey A, Milot G, Sam, II AD, Tom M, Hughes SE, Sheffet AJ, Longbottom M, Avery JB, Hobson, II RW, Brott TG. Does Sex Matter? Thirty-Day Stroke and Death Rates Following Carotid Artery Stenting in Women vs. Men: Results from the Carotid Revascularization Endarterectomy vs. Stenting Trial (CREST) Lead-in Phase. *Stroke* 2009; 40 (4):1140-1147. [PMCID:PMC2785119]
66. Prineas RJ, Soliman E, Howard G, **Howard VJ**, Cushman M, Zhang Z, Moy CS. The sensitivity of the methods of detection of atrial fibrillation in population studies affects group-specific prevalence estimates: Ethnic and regional distribution of atrial fibrillation in the REGARDS study. *J of Epidemiology* 2009;19(4):177-181. [PMCID: PMC2750004]
67. Hlatky MA, Greenland P, Arnett D, Ballantyne C, Criqui M, Elkind M, Go AS, Harrell FE, Hong Y, Howard BV, **Howard VJ**, et al. American Heart Association Expert Panel on Subclinical Atherosclerotic Diseases and Emerging Risk Factors and the Stroke Council. Criteria for evaluation of novel markers of cardiovascular risk: a scientific statement from the American Heart Association. *Circulation* 2009; 119(117):2408-2416.

68. Howard G, Cushman M, Prineas RJ, **Howard VJ**, Moy CS, Sullivan LM, D'Agostino RB Sr, McClure LA, Pulley L, Safford MM. Advancing the hypothesis that geographic variations in risk factors contribute relatively little to observed geographic variations in heart disease and stroke mortality. *Prev Med* 2009; 49(2-3):129-32. [PMCID: PMC2778033]
69. Curtis JR, McClure LA, Delzell E, **Howard VJ**, Orwoll E, Saag KG, Safford M, Howard G. Population-based fracture risk assessment and osteoporosis treatment disparities by race and gender. *J Gen Intern Med* 2009; 24(8):956-62. [PMCID: PMC2710475]
70. Ekundayo OJ, **Howard VJ**, Safford MM, McClure LA, Arnett D, Allman RM, Howard G, Ahmed A. Value of orthopnea, paroxysmal nocturnal dyspnea, and medications in prospective population studies of incident heart failure. *Am J Cardiol* 2009 104(2):259-64. [PMCID: PMC2787196]
71. Cushman M, McClure LA, **Howard VJ**, Jenny NS, Lakoski SG, Howard G. Implications of elevated C-reactive protein for cardiovascular risk stratification in black and white men and women in the United States. *Clin Chem* 2009; 55(9):1627-36. [PMCID: PMC2810186]
72. Pullicino PM, McClure LA, Wadley V, Ahmed A, **Howard VJ**, Howard G, Safford MS. Blood pressure and stroke in heart failure in the REGARDS Study. *Stroke* 2009; 40(12):3706-10. [PMCID: PMC2903881]
73. Lloyd-Jones D, Adams RJ, Brown TM, Carnethon M, Dai S, De Simone G, Ferguson TB, Ford E, Furie K, Gillespie C, Go A, Greenlund K, Haase N, Hailpern S, Ho M, **Howard V**, et al. on behalf of the American Heart Association Statistics Committee and Stroke Statistics Subcommittee. Heart Disease and Stroke Statistics—2010 Update. A report from the American Heart Association. *Circulation* 2010 Feb 23;121(7):e46-e215.
74. Soliman EZ, Howard G, Prineas RJ, McClure LA, **Howard VJ**. Calculating Cornell Voltage from nonstandard chest electrode recording site in the REasons for Geographic and Racial Differences in Stroke (REGARDS) Study. *J Electrocardiol* 2010, May-June: 43(3):209-14. [PMCID: PMC2856789]
75. Sheffet AJ, Roubin G, Howard G, **Howard V**, Moore W, Meschia JF, Hobson RW II, Brott TG. Design of the Carotid Revascularization Endarterectomy vs. Stenting Trial (CREST). *Int J of Stroke* 2010, 5: 40-46. [PMCID: PMC2898199]
76. Meschia JF, Merrill P, Soliman EZ, **Howard VJ**, Barrett KM, Zakai NA, Kleindorfer D, Safford M, Howard G. Racial disparities in awareness and treatment of atrial fibrillation: The REasons for Geographic and Racial Differences in Stroke (REGARDS) Study. *Stroke* 2010 Apr 41(4):581-587. [PMCID: PMC2885129]
77. McClellan WM, Abramson J, Newsome B, Temple E, Wadley VG, Audhya P, McClure LA, **Howard VJ**, Warnock DG, Kimmel P. Physical and psychological burden of chronic kidney disease among older adults. *Am J Nephrol* 2010;31(4):309-17. [PMCID: PMC2859227]
78. **Howard VJ**, Woolson RF, Egan BM, Nicholas JS, Adams RJ, Howard G, Lackland DT. Prevalence of hypertension in a US cohort by duration and age at exposure to the stroke belt. *J Am Soc Hypertens* 2010; 4(1):32-41. [PMCID: PMC2872151]

79. Brenner D, Zweifler RM, Gomez CR, Kissela BM, Levine D, Howard G, Coull B, **Howard VJ**. Awareness, treatment, and control of vascular risk factors among stroke survivors: The REasons for Geographic And Racial Differences in Stroke (REGARDS) study. *J Stroke Cerebrovas Dis* 2010 July-August;19(4):311-320. [PMCID:PMC3606552]
80. Cummings DM, Doherty L, Howard G, **Howard VJ**, Safford MM, Prince V, Kissela B, Lackland D. Blood pressure control in diabetes mellitus – Temporal progress yet persistent racial disparities: Results from the REasons for Geographic and Racial Differences in Stroke (REGARDS) Study. *Diabetes Care* 2010 Apr;33(4):798-803. [PMCID: PMC2845030]
81. Brott TG, Hobson RW II, Howard G, Roubin GS, Clark WM, Brooks W, Mackey A, Hill MD, Leimgruber PP, Sheffet AJ, **Howard VJ**, Moore WS, Voeks JH, Hopkins N, Cutlip DE, Cohen DJ, Popma JJ, Ferguson RD, Cohen SN, Blackshear JL, Silver FL, Mohr JP, Lal BK, Meschia JF for the CREST investigators. Stenting versus endarterectomy for treatment of carotid-artery stenosis. *N Engl J Med* 2010 Jul 1;363(1):11-23 [PMCID: PMC2932446]
82. Mujib M, Desai R, Levitan EB, **Howard V**, Howard G, McGwin G Jr., Ahmed A. Prospective population studies of incident heart failure without data on baseline left ventricular ejection fraction. *Arch Med Sci* 2010 Oct;6(5):686-8. [PMCID: PMC3298335]
83. Nahab F, Le A, Judd S, Frankel MR, Ard J, Newby PK, **Howard VJ**. Racial and geographic differences in fish and omega-3 fatty acid consumption: The REGARDS study. *Neurology* 2011;76(2):154-8. [PMCID: PMC3271387].
84. Glasser SP, Judd S, Basile J, Lackland D, Halanych J, Cushman M, Prineas R, **Howard V**, Howard G. Prehypertension, racial prevalence and association with risk factors: REasons for Geographic And Racial Differences in Stroke (REGARDS) Study. *Am J Hypertens* 2011 24(2):194-199. [PMCID: PMC3468299].
85. Goldstein LB, Bushnell CD, Adams RJ, Appel LJ, Braun LT, Chaturvedi S, Creager MA, Culebras A, Eckel RH, Hart RG, Hinchey JA, **Howard VJ**, et al. Guidelines for the Primary Prevention of Stroke. A Statement for Healthcare Professionals from the American Heart Association/American Stroke Association Council on Stroke. Co-sponsored by the Councils on Cardiovascular Nursing, Epidemiology and Prevention, High Blood Pressure Research, Peripheral Vascular Disease, and Quality and Outcomes Research. *Stroke* 2011 Feb;42(2):517-584. [PMCID not applicable]
86. Baber U, **Howard VJ**, Halerin JL, Soliman EZ, Zhang X, McClellan W, Warnock DG, Muntner P. Association of chronic kidney disease with atrial fibrillation among adults in the United States: REasons for Geographic and Racial Differences in Stroke (REGARDS) Study. *Circ Arrhythm Electrophysiol* 2011 Feb;4(1):26-32. [PMCID: PMC3049935].
87. Levine DA, Calhoun DA, Prineas RJ, Cushman M, **Howard VJ**, Howard G. Moderate waist circumference and hypertension prevalence: The REGARDS study. *Am J Hypertens* 2011 Apr;24(4):482-8. [PMCID: PMC3717383].
88. Roger VL, Go AS, Lloyd-Jones DM, Adams RJ, Berry JD, Brown TM, Carnethon MR, Dai S, de Simone G, Ford ES, Fox CS, Fullerton HJ, Gillespie C, Greenlund KJ, Hailpern SM, Heit JA, Ho PM, **Howard VJ** et al on behalf of the American Heart Association Statistics Committee and Stroke Statistics



- Subcommittee. Heart Disease and Stroke Statistics—2011 Update: A Report from the American Heart Association. *Circulation* 2011;123:e18-e209. [PMCID not applicable].
89. **Howard VJ**, Kleindorfer DO, Judd SE, McClure LA, Safford MM, Rhodes JD, Cushman M, Moy CS, Soliman EZ, Kissela BM, Howard G. Disparities in stroke incidence contributing to disparities in stroke mortality. *Ann Neuro* 2011;69:619-627. [PMCID: PMC3595534].
90. Muntner P, Halanych JH, Reynolds K, Durant R, Vupputuri S, Sung VW, Meschia JF, **Howard VJ**, Safford MM, Krousel-Wood M. Low medication adherence and the incidence of stroke symptoms among individuals with hypertension: The REGARDS study. *J Clin Hyertens* 2011;13:479-486. [PMCID: PMC3140118].
91. Tanner RM, Baber U, Carson AP, Voeks J, Brown T, Soliman EZ, **Howard VJ**, Muntner P. Association of the metabolic syndrome with atrial fibrillation among US adults (from the REGARDS) Study. *Am J Cardio* 2011 Jul 15;108(2):227-232. [PMCID: PMC3659169].
92. Halanych JH, Shuaib F, Parmar G, Tanikella R, **Howard VJ**, Roth DL, Prineas RJ, Safford MM. Agreement on cause of death between proxies, death certificate, and clinician adjudicators in the REasons for Geographic And Racial Differences in Stroke (REGARDS) study. *Am J Epidemiol* 2011 Jun 1;173(11):1319-1326. [PMCID: PMC3101067].
93. Kabagambe EK, Judd SE, **Howard VJ**, Zakai NA, Jenny NS, Hsieh M, Warnock DG, Cushman M. Inflammation biomarkers and risk of all-cause mortality in the REasons for Geographic and Racial Differences in Stroke (REGARDS) Cohort. *Am J Epidemiol* 2011 Aug 1;174(3):284-92. [PMCID: PMC3202158].
94. Howard G, McClure LA, Moy CS, Safford MM, Cushman M, Judd SE, Kissela BM, Kleindorfer DO, **Howard VJ**, Rhodes DJ, Muntner P, Tiwari HK. Imputation of incident events in longitudinal cohort studies. *Am J Epidemiol* 2011 Sept 15;174(6):718-726. [PMCID: PMC3166710].
95. Wadley VG, Unverzagt FW, McGuire LC, Moy CS, Go R, Kissela B, McClure LA, Crowe M, **Howard VJ**, Howard G. Incident cognitive impairment is elevated in the stroke belt: The REGARDS study. *Ann Neuro* 2011 Aug;70(2):229-236. [PMCID: PMC3152671].
96. Judd SE, McClure LA, **Howard VJ**, Lackland DT, Halanych JH, Kabagambe EK. Heavy drinking is associated with poor blood pressure control in the REasons for Geographic and Racial Differences in Stroke (REGARDS) Study. *Int J Environ Res Public Health* 2011 May 8 (5) 1601-12. [PMCID: PMC3108130].
97. **Howard VJ**, Lutsep HL, Mackey A, Demaerschalk BM, Sam II AD, Gonzales NR, Sheffet AJ, Voeks JH, Meschia JF, Brott TG. Influence of sex on outcomes of stenting versus endarterectomy: Results from the Carotid Revascularization Endarterectomy vs. Stenting Trial (CREST). *Lancet Neurology* 2011; Jun;1(6):530-7. [PMCID: PMC3321485].
98. Muntner P, Judd SE, McClellan W, Meschia JF, Warnock DG, **Howard VJ**. Incidence of stroke symptoms among adults with chronic kidney disease: Results from the REasons for Geographic and Racial Differences in Stroke (REGARDS) study. *Nephrol Dial Transplant* 2012 Jan;27(1):166-73. [PMCID: PMC3350340].

99. Zweifler RM, McClure LA, **Howard VJ**, Cushman M, Hovater MK, Safford MM, Howard G, Goff Jr. DC. Racial and geographic differences in prevalence, awareness, treatment and control of dyslipidemia: The REasons for Geographic And Racial Differences in Stroke (REGARDS) Study. *Neuroepidemiology* 2011;37:39-44. [PMCID: PMC3171279].
100. Soliman EZ, Howard G, Meschia JF, Cushman M, Muntner P, Pullicino Pm, McClure LA, Judd SE, **Howard VJ**. Self-reported atrial fibrillation and risk of stroke in the REasons for Geographic and Racial Differences in Stroke (REGARDS) Study. *Stroke* 2011 Oct;42(10):2950-3 [PMCID: PMC3185239]
101. Cox TL, Ard JD, Beasley TM, Fernandez JR, **Howard VJ**, Affuso O. Body image as a mediator of the relationship between body mass index and weight-related quality of life in black women. *J Womens Health (Larchmt)* 2011 Oct; 20(10):1573-8. [PMCID: PMC3186445]
102. Kleindorfer DO, Judd SE, **Howard VJ**, Safford MM, Cushman M, Rhodes JD, Howard G. Self-reported stroke symptoms without a prior diagnosis of stroke or TIA: A powerful new risk factor for stroke. *Stroke* 2011 Nov; 42(11):3122-6 [PMCID: PMC3244205]
103. Howard G, Cushman M, Kissela BM, Kleindorfer DO, McClure LA, Safford MM, Rhodes DJ, Soliman EZ, Moy CS, Judd SE, **Howard VJ** for the REasons for Geographic and Racial Differences in Stroke(REGARDS) Investigators. Traditional risk factors as the underlying cause of racial disparities in stroke: Lessons from the half full (empty?) glass. *Stroke* 2011 Dec;42(12):3369-3375. [PMCID: PMC3226886]
104. Unverzagt FW, McClure LA, Wadley VG, Jenny NS, Go RC, Cushman M, Kissela BM, Kelley BJ, Kennedy R, Moy CS, **Howard V**, Howard G. Vascular risk factors and cognitive impairment in a stroke-free cohort. *Neurology* 2011 Nov 8;77(19):1729-36. [PMCID: PMC3208949]
105. Pullicino PM, McClure LA, **Howard VJ**, Wadley VG, Safford MM, Meschia JF, Anderson A, Howard G, Soliman EZ. Identifying a high stroke risk subgroup in individuals with heart failure. *J Stroke Cerebrovasc Dis* 2013 Jul;22(5):620-6. 2011 Dec 3 [Epub ahead of print] [PMCID: PMC3326204]
106. Roger VL, Go AS, Lloyd-Jones DM, . . . **Howard VJ**, et al on behalf of the American Heart Association Statistics Committee and Stroke Statistics Subcommittee. Heart Disease and Stroke Statistics—2012 Update: A Report from the American Heart Association. *Circulation* 2012 Jan 3;125(1):e2-e220. [PMCID not applicable].
107. Howard G, **Howard VJ**. Observational epidemiology within randomized clinical trials: Getting a lot for (almost) nothing. *Prog Cardiovasc Dis* 2012 Jan-Feb;54(4):367-71. [PMCID not applicable]
108. Howard G, Waller JL, Voeks JH, **Howard VJ**, Jauch E, Lees KR, Nichols FT, Rahlfs V, Hess DC. A simple, assumption-free and clinically interpretable approach for analysis of modified Rankin outcomes. *Stroke* 2012 Mar;43(3):664-9. [PMCID:PMC3838314]
109. Prineas RJ, Le A, Soliman EZ, Zhang Z, **Howard VJ**, Ostchega Y, Howard G; Reasons for Geographic and Racial Differences in Stroke Study. United States national prevalence of electrocardiographic abnormalities in black and white middle-aged (45- to 64-Year) and older ( $\geq 65$ -years) adults (from the

- REasons for Geographic And Racial Differences in Stroke (REGARDS) Investigators. *Am J Cardiol* 2012 Apr 15;109(8):1223-8. [PMCID: PMC3319226]
110. Soliman EZ, Howard G, Cushman M, Kissela B, Kleindorfer D, Le A, Judd S, McClure LA, **Howard VJ**. Prolongation of QTc and risk of stroke in the REasons for Geographic and Racial Differences in Stroke (REGARDS) Study. *J Am Coll Cardiol* 2012 Apr 17;59(16):1406-7. [PMCID: PMC3345207]
111. Longbottom ME, Roberts JN, Tom M, Hughes SE, **Howard VJ**, Sheffet AJ, Meschia JF, Brott TG for the CREST investigators. Interventions to increase enrollment in a large multicenter phase 3 trial of carotid stenting versus endarterectomy. *Int J of Stroke* 2012; 7(6):447-53 [PMCID: PMC3399984]
112. Elbers CC, Guo Y, Tragante V, . . . **Howard VJ**, . . . Keating BJ. Gene-centric meta-analysis of lipid traits in African, East Asian and Hispanic populations. *PLoS One* 2012; 7(12). [PMCID: PMC3517599].
113. Carson AP, Muntner P, Kissela BM, Kleindorfer DO, **Howard VJ**, Meschia JF, Williams LS, Prineas RJ, Howard G, Safford MM. Association of pre-diabetes and diabetes with stroke symptoms: The REasons for Geographic and Racial Differences in Stroke (REGARDS) study. *Diabetes Care* 2012 35(9):1845-52 [PMCID: PMC3424995]
114. Gao L, Meschia JF, Judd S, Muntner P, McClure LA, **Howard VJ**, Rhodes JD, Cushman M, Safford MM, Soliman EZ, Kleindorfer DO, Howard G. What stroke symptoms tell us: Association of risk factors and individual stroke symptoms in the REasons for Geographic and Racial Differences in Stroke (REGARDS) study. *J Stroke Cerebro Dis* 2012 Jul;21(5):411-6. [PMCID: PMC338361]
115. Gutierrez OM, Judd SE, Muntner P, Rizk DV, McClellan WM, Safford MM, Cushman M, Kissela BM, **Howard VJ**, Warnock DG for the REGARDS investigators. Racial differences in albuminuria, kidney function and risk of stroke. *Neurology* 2012;79(16):1686-92 [PMCID: PMC3468778]
116. Perkins M, **Howard VJ**, Wadley VG, Crowe M, Safford MM, Haley WE, Roth DL. Caregiving strain and all-cause mortality: Evidence from the REGARDS study. *J Gerontol B Psychol Sci Soc Sci* 2013 Jul;68(4):504-12. [PMCID: PMC3674731].
117. Crowe M, Clay OJ, Martin RC, **Howard VJ**, Wadley VG, Sawyer P, Allman RM. Indicators of childhood quality of education in relation to cognitive function in older adulthood. *J Gerontol A Biol Sci Med Sci* 2013 Feb;68(2): 198-204. [PMCID: PMC3598357].
118. Howard G, Lackland DT, Kleindorfer DO, Kissela BM, Moy CS, Judd SE, Safford MM, Cushman M, Glasser SP, **Howard VJ**. Racial differences in the impact of elevated systolic blood pressure on stroke risk. *JAMA Intern Med.* 2013 Jan 14;173(1):46-51. [PMCID: PMC3759226].
119. Cummings DM, Letter AJ, Howard G, **Howard VJ**, Safford MM, Prince V, Muntner P. Generic medications and blood pressure control in diabetic hypertensive subjects: Results from the REasons for Geographic and Racial Differences in Stroke (REGARDS) study. *Diabetes Care* 2013;36(3):591-7 [PMCID: PMC:3579377]
120. Safford MM, Brown TM, Muntner PM, Durant RW, Glasser S, Halanych JH, Shikany JM, Prineas RJ, Samdarshi T, Bittner VA, Lewis CE, Gamboa C, Cushman M, **Howard V**, Howard G, REGARDS

- Investigators. Association of race and sex with risk of incident acute coronary heart disease events. *JAMA*. 2012 Nov 7;308(17):1768-74. [PMCID: PMC3772637].
121. Kent ST, McClure LA, Judd SE, **Howard VJ**, Crosson WL, Al-Hamdan MZ, Wadley VG, Peace F, Kabagambe EK. Short and long-term sunlight radiation and stroke incidence. *Ann Neurology* 2013;73(1):32-37. [PMCID: PMC3563869]
  122. Judd SE, Kleindorfer DO, McClure LA, Rhodes JD, Cushman M, Howard G, **Howard VJ**. Self-report of stroke, transient ischemic attack or stroke symptom and risk of future stroke in the REasons for Geographic and Racial Differences in Stroke (REGARDS) Study. *Stroke* 2013;44(1):55-60. [PMCID: PMC3558975]
  123. Go AS, Mozaffarian D, Roger VL, . . . , **Howard VJ**, . . . Turner MB, American Heart Association Statistics Committee and Stroke Statistics Subcommittee. Heart disease and stroke statistics--2013 update: a report from the American Heart Association. *Circulation*. 2013 Jan 1;127(1):e6-e245. PubMed PMID: 23239837. [PMCID: PMC not applicable]
  124. Kent ST, Kabagambe EK, Wadley VG, **Howard VJ**, Crosson WL, Al-Hamdan MZ, Judd SE, Peace F, McClure LA. The relationship between long-term sunlight radiation and cognitive decline in the REGARDS cohort study. *Int J Biometeorol*. Epub ahead of print: 2013 Jan 24. [PMCID: PMC3665728]
  125. Le A, Judd SE, Allison DB, Oza-Frank R, Affuso O, Safford MM, **Howard VJ**, Howard G. The Geographic Distribution of Obesity in the US and the Potential Regional Differences in Misreporting of Obesity. *Obesity (Silver Spring)*. 2014 Jan;22(1):300-6 [epub 2013 Jun 13] [PMCID:PMC3866220]
  126. Plantinga L, **Howard VJ**, Judd S, Muntner P, Tanner R, Rizk D, Lackland DT, Warnock DG, Howard G, McClellan WM. Association of duration of residence in the southeastern United States with chronic kidney disease may differ by race: the REasons for Geographic and Racial Differences in Stroke (REGARDS) cohort study. *Int J Health Geogr*. 2013 Mar 21;12-17. [PMCID: PMC3606831]
  127. Cox TL, Ard JD, Beasley TM, Fernandez JR, **Howard VJ**, Kolotkin R, Crosby R, Affuso O. Examining the association between body mass index and weight-related quality of life in black and white women. *App Res Qual Life* 2012;7(3)309-322. [not in PubMed]
  128. Tsvigoulis G, Judd S, Letter AJ, Alexandrov AV, Howard G, Nahab F, Unverzagt FW, Moy C, **Howard VJ**, Kissela B, Wadley VG. Adherence to a Mediterranean diet and risk of incident cognitive impairment. *Neurology*. 2013 Apr 30;80(18):1684-92. [PMCID: PMC3716473].
  129. **Howard VJ**, McClure LA, Glymour MM, Cunningham SA, Kleindorfer DO, Crowe M, Wadley VG, Peace F, Howard G, Lackland DT. Effect of duration and age at exposure to the Stroke Belt on incident stroke in adulthood. *Neurology*. 2013 Apr 30;80(18):1655-61. [PMCID: PMC3716470].
  130. Monda KL, Chen GK, Taylor KC, . . . , **Howard VJ**, . . . , Haiman CA. A meta-analysis identifies new loci associated with body mass index in individuals of African ancestry. *Nat Genet* 2013 Jun;45(6):690-6. Epub 2013 Apr 14. [PMCID: PMC3694490].
  131. Kiage JN, Merrill PD, Robinson CJ, Cao Y, Malik TA, Hundley BC, Lao P, Judd SE, Cushman M, **Howard VJ**, Kabagambe EK. Intake of trans fat and all-cause mortality in the Reasons for Geographical

- and Racial Differences in Stroke (REGARDS) cohort. *Am J Clin Nutr*. 2013 May;97(5):1121-8. [PMCID: PMC3628378].
132. **Howard VJ**. Reasons underlying racial differences in stroke incidence and mortality. *Stroke*. 2013 Jun;44(6 Suppl 1):S126-8. [PMCID: PMC3784978].
133. Howard G, Cushman M, **Howard VJ**, Kissela BM, Kleindorfer DO, Moy CS, Switzer J, Woo D. Risk factors for intracerebral hemorrhage: the REasons for geographic and racial differences in stroke (REGARDS) study. *Stroke*. 2013 May;44(5):1282-7. [PMCID: PMC3753577].
134. Glasser SP, Hovater MK, Lackland DT, Cushman M, Howard G, **Howard VJ**. Primary prophylactic aspirin use and incident stroke: reasons for geographic and racial differences in stroke study. *J Stroke Cerebrovasc Dis*. 2013 May;22(4):500-7. [PMCID: PMC3656489].
135. Bowling CB, Booth JN 3<sup>rd</sup>, Safford MM, Whitson HE, Ritchie CS, Wadley VG, Cushman M, **Howard VJ**, Allman RM, Muntner P. Nondisease-specific problems and all-cause mortality in the REasons for Geographic and Racial Differences in Stroke (REGARDS) study. *J Am Geriatr Soc*. 2013 May;61(5):739-46. [PMCID: PMC3656135].
136. DeRango P, Caso V, Paciaroni M, Brown M, Didier, **Howard VJ**, Moore WS, Ringleb P, Rockman C. Management of carotid stenosis in women: A consensus document. *Neurology*. 2013 Jun 11;80(24):2258-68. [PMCID: PMC3721103].
137. Kulshreshtha A, Vaccarino V, Judd S, **Howard VJ**, McClellan W, Muntner P, Hong Y, Safford M, Goyal A, Cushman M. Life's simple 7 and risk of incident stroke: REasons for Geographic and Racial Differences in Stroke (REGARDS) study. *Stroke* 2013 Jul;44(7):1909-14. [PMCID: PMC3816734].
138. Mullen MT, Judd S, **Howard VJ**, Kasner SE, Branas CC, Albright KC, Rhodes JD, Kleindorfer DO, Carr BG. Disparities in Evaluation at Certified Primary Stroke Centers within a National Cohort: The REasons for Geographic And Racial Differences in Stroke (REGARDS) Study. *Stroke* 2013 Jul;44(7):1930-5. [PMCID: PMC3747032].
139. Edmondson D, Richardson S, Fausett JK, Falzon L, **Howard VJ**, Kronish IM. Prevalence of PTSD in survivors of stroke and transient ischemic attack: A meta-analytic review. *PLoS One*. 2013;8(6):e66435. [PMCID: PMC3686746].
140. Ovbiagele B, Goldstein LB, Higashida RT, **Howard VJ**, Johnston SC, Khavjou OA, Lackland DT, Lichtman JH, Mohl S, Sacco RL, Saver JL, Trogdon JG, American Heart Association Advocacy Coordinating Committee and Stroke Council. Forecasting the future of stroke in the United States: a policy statement from the American Heart Association and American Stroke Association. *Stroke*. 2013 Aug;44(8):2361-75. [PMCID: PMC not applicable]
141. Liu CT, Monda KL, Taylor KC, . . . , **Howard V**, . . . Fox CS. Genome-wide association of body fat distribution in African ancestry populations suggests new loci. *PLoS Genet* 2013 9(8):e1003681. [Epub 2013 Aug 15] [PMCID: PMC3744443]
142. McDonnell MN, Hillier SL, Hooker SP, Le A, Judd SE, **Howard VJ**. Physical activity frequency and risk of incident stroke in a national US study of blacks and whites. *Stroke*. 2013 Sep;44(9):2519-24. [PMCID: PMC3809059].

143. Cummings DM, Letter AJ, Howard G, **Howard VJ**, Safford MM, Prince V, Muntner P. Medication adherence and stroke/TIA risk in treated hypertensives: results from the REGARDS study. *J Am Soc Hypertens*. 2013 Sep-Oct;7(5):363-9. [PMCID: PMC3807818].
144. Franceschini N, Fox E, Zhang Z, . . ., **Howard VJ**, Zhu X. Genome-wide association analysis of blood-pressure traits in African-ancestry individuals reveals common associated genes in African and non-African populations. *Am J Hum Genet*. 2013 Sep 5;93(3):545-54. [PMCID: PMC3769920].
145. Ruitter Petrov ME, Letter AJ, **Howard VJ**, Kleindorfer D. Self-reported sleep duration in relation to incident stroke symptoms: nuances by body mass and race from the REGARDS Study. *J Stroke Cerebrovasc Dis*. 2014 Feb;23(2):e123-32 [PMCID: PMC3946730].
146. Judd SE, Gutiérrez OM, Newby PK, Howard G, **Howard VJ**, Locher JL, Kissela BM, Shikany JM. Dietary Patterns Are Associated With Incident Stroke and Contribute to Excess Risk of Stroke in Black Americans. *Stroke* 2013 Dec;44(12):3305-11. [PMCID: PMC3898713]
147. Hutto B, **Howard VJ**, Blair SN, Colabianchi N, Vena JE, Rhodes D, Hooker SP. Identifying accelerometer nonwear and wear time in older adults. *Int J Behav Nutr Phys Act*. 2013 Oct 25;10(1):120. [PMCID:PMC4015851].
148. Soliman EZ, Safford MM, Muntner P, Khodneva Y, Dawood FZ, Zakai NA, Thacker EL, Judd S, **Howard VJ**, Howard G, Herrington DM, Cushman M. Atrial fibrillation and the risk of myocardial infarction. *JAMA Intern Med*. 2014 Jan;174(1):107-14. Erratum in: *JAMA Intern Med*. 2014 Feb1;174(2):308. [PMCID: PMC4115282].
149. Thrift AG, Cadilhac DA, Thayabaranathan T, Howard G, **Howard VJ**, Rothwell PM, Donnan GA. Global stroke statistics. *Int J Stroke*. 2014 Jan;9(1):6-18. [PMCID: PMC not applicable].
150. Go AS, Mozaffarian D, Roger VL, Benjamin EJ, Berry JD, Blaha MJ, Dai S, Ford ES, Fox CS, Franco S, Fullerton HJ, Gillespie C, Hailpern SM, Heit JA, **Howard VJ**, et al. American Heart Association Statistics Committee and Stroke Statistics Subcommittee. Heart disease and stroke statistics--2014 update: a report from the American Heart Association. *Circulation*. 2014 Jan 21;129(3):e28-e292. Epub 2013 Dec 18. [PMCID: PMC not applicable].
151. Go AS, Mozaffarian D, Roger VL, Benjamin EJ, Berry JD, Blaha MJ, Dai S, Ford ES, Fox CS, Franco S, Fullerton HJ, Gillespie C, Hailpern SM, Heit JA, **Howard VJ**, et al. American Heart Association Statistics Committee and Stroke Statistics Subcommittee. Executive summary: heart disease and stroke statistics—2014 update: a report from the American Heart Association. *Circulation*. 2014 Jan 21;129(3):399-41. [PMCID: PMC not applicable].
152. Addison-Brown KJ, Letter AJ, Yaggi K, McClure LA, Unverzagt FW, **Howard VJ**, Lichtman JH, Wadley VG. Age differences in the association of obstructive sleep apnea risk with cognition and quality of life. *J Sleep Res*. 2014 Feb;23(1):69-76. Epub 2013 Sep 2. [PMCID: PMC4147721].
153. MacDonald LA, Pulley L, Hein MJ, **Howard VJ**. Methods and feasibility of collecting occupational data for a large population-based cohort study in the United States: the reasons for geographic and racial differences in stroke study. *BMC Public Health*. 2014 Feb 10;14:142. [PMCID: PMC3933294].
154. Kent ST, Kabagambe EK, Wadley VG, **Howard VJ**, Crosson WL, Al-Hamdan MZ, Judd SE, Peace F, McClure LA. The relationship between long-term sunlight radiation and cognitive decline in the REGARDS cohort study. *Int J Biometeorol*. 2014 Apr;58(3):361-70. Epub 2013 Jan 24. [PMCID: PMC3665728].

155. Muntner P, Colantonio LD, Cushman M, Goff DC Jr, Howard G, **Howard VJ**, Kissela B, Levitan EB, Lloyd-Jones DM, Safford MM. Validation of the atherosclerotic cardiovascular disease Pooled Cohort risk equations. *JAMA*. 2014 Apr 9;311(14):1406-15. [PMCID: PMC4189930].
156. Bushnell C, McCullough LD, Awad IA, Chireau MV, Fedder WN, Furie KL, **Howard VJ**, et al. American Heart Association Stroke Council; Council on Cardiovascular and Stroke Nursing; Council on Clinical Cardiology; Council on Epidemiology and Prevention; Council for High Blood Pressure Research. Guidelines for the prevention of stroke in women: a statement for healthcare professionals from the American Heart Association/American Stroke Association. *Stroke*. 2014 May;45(5):1545-88. Epub 2014 Feb 6. Review. Erratum in: *Stroke*. 2014; 45(10);e214. *Stroke*.2014 May;45(5):e95. [PMCID: PMC not applicable]
157. Kiage JN, Merrill PD, Judd SE, He K, Lipworth L, Cushman M, **Howard VJ**, Kabagambe EK. Intake of trans fat and incidence of stroke in the REasons for Geographic And Racial Differences in Stroke (REGARDS) cohort. *Am J Clin Nutr*. 2014 May;99(5):1071-6. Epub 2014 Feb 12. [PMCID: PMC3985212].
158. Cushman M, Judd SE, **Howard VJ**, Kissela B, Gutiérrez OM, Jenny NS, Ahmed A, Thacker EL, Zakai NA. N-terminal pro-B-type natriuretic peptide and stroke risk: the reasons for geographic and racial differences in stroke cohort. *Stroke*. 2014 Jun;45(6):1646-50. Epub 2014 Apr 22. [PMCID: PMC4142424].
159. Lee LT, Alexandrov AW, **Howard VJ**, Kabagambe EK, Hess MA, McLain RM, Safford MM, Howard G. Race, regionality and pre-diabetes in the Reasons for Geographic and Racial Differences in Stroke (REGARDS) study. *Prev Med*. 2014 Jun;63:43-7. Epub 2014 Mar 1. [PubMed PMID: 24594101].
160. Thacker EL, Gillett SR, Wadley VG, Unverzagt FW, Judd SE, McClure LA, **Howard VJ**, Cushman M. The American Heart Association Life's Simple 7 and incident cognitive impairment: The REasons for Geographic And Racial Differences in Stroke (REGARDS) study. *J Am Heart Assoc*. 2014 Jun 11;3(3):e000635. [PMCID: PMC4309046].
161. Howard G, Peace F, **Howard VJ**. The contributions of selected diseases to disparities in death rates and years of life lost for racial/ethnic minorities in the United States, 1999-2010. *Prev Chronic Dis*. 2014 Jul 31;11:E129. [PMCID: PMC4124043].
162. Howard G, Wagenknecht LE, Kernan WN, Cushman M, Thacker EL, Judd SE, **Howard VJ**, Kissela BM. Racial differences in the association of insulin resistance with stroke risk: the REasons for Geographic And Racial Differences in Stroke (REGARDS) study. *Stroke*. 2014 Aug;45(8):2257-62. Epub 2014 Jun 26. [PMCID: PMC4430474].
163. Sheffet AJ, Flaxman L, Tom M, Hughes SE, Longbottom ME, **Howard VJ**, Marler JR, Brott TG; CREST Investigators. Financial management of a large multisite randomized clinical trial. *Int J Stroke*. 2014 Aug;9(6):811-3. Epub 2014 Mar 24. [PMCID:PMC4107123].
164. Petrov ME, **Howard VJ**, Kleindorfer D, Grandner MA, Molano JR, Howard G. Over-the-counter and prescription sleep medication and incident stroke: the REasons for Geographic and Racial Differences in Stroke study. *J Stroke Cerebrovasc Dis*. 2014 Sep;23(8):2110-6. Epub 2014 Aug 10. [PMCID: PMC4157947].
165. Banach M, Bromfield S, Howard G, **Howard VJ**, Zanchetti A, Aronow WS, Ahmed A, Safford MM, Muntner P. Association of systolic blood pressure levels with cardiovascular events and all-cause mortality among older adults taking antihypertensive medication. *Int J Cardiol*. 2014 Sep;176(1):219-26. Epub 2014 Jul 22. [PMCID: PMC4144437].

166. **Howard VJ**, Rhodes JD, Mosher A, Hutto B, Stewart MS, Colabianchi N, Vena JE, Blair SN, Hooker SP. Obtaining accelerometer data in a national cohort of black and white adults. *Med Sci Sports Exerc.* 2015 Jul;47(7):1531-7. [PMCID: PMC4404169].
167. Howard G, Voeks JH, Meschia JF, **Howard VJ**, Brott TG. Picking the good apples: statistics versus good judgment in choosing stent operators for a multicenter clinical trial. *Stroke.* 2014 Nov;45(11):3325-9. [PMCID: PMC4332554].
168. Meschia JF, Voeks JH, Leimgruber PP, Mantese VA, Timaran CH, Chiu D, Demaerschalk BM, **Howard VJ**, Hughes SE, Longbottom M, Howard AG, Brott TG. Management of vascular risk factors in the Carotid Revascularization Endarterectomy Versus Stenting Trial (CREST). *J Am Heart Assoc.* 2014 Nov 26;3(6):e001180. [PMCID: PMC4338705].
169. Keita AD, Judd SE, **Howard VJ**, Carson AP, Ard JD, Fernandez JR. Associations of neighborhood area level deprivation with the metabolic syndrome and inflammation among middle- and older- age adults. *BMC Public Health.* 2014 Dec 23;14:1319. [PMCID: PMC4364504].
170. Mozaffarian D, Benjamin EJ, Go AS, Arnett DK, Blaha MJ, Cushman M, de Ferranti S, Després JP, Fullerton HJ, **Howard VJ**, et al. American Heart Association Statistics Committee and Stroke Statistics Subcommittee. Heart disease and stroke statistics--2015 update: a report from the American Heart Association. *Circulation.* 2015 Jan 27;131(4):e29-322. Epub 2014 Dec 17. [PMCID: PMC not applicable]
171. Panwar B, Jenny NS, **Howard VJ**, Wadley VG, Muntner P, Kissela BM, Judd SE, Gutiérrez OM. Fibroblast growth factor 23 and risk of incident stroke in community-living adults. *Stroke.* 2015 Feb;46(2):322-8. Epub 2015 Jan 6. [PMCID: PMC4308535].
172. Kulshreshtha A, Vaccarino V, Goyal A, McClellan W, Nahab F, **Howard VJ**, Judd SE. Family history of stroke and cardiovascular health in a national cohort. *J Stroke Cerebrovasc Dis.* 2015 Feb;24(2):447-54. [PMCID: PMC4315691].
173. Tsvigoulis G, Psaltopoulou T, Wadley VG, Alexandrov AV, Howard G, Unverzagt FW, Moy C, **Howard VJ**, Kissela B, Judd SE. Adherence to a Mediterranean diet and prediction of incident stroke. *Stroke.* 2015 Mar;46(3):780-5. [PMCID: PMC4621211]
174. **Howard VJ**, Tanner RM, Anderson A, Irvin MR, Calhoun DA, Lackland DT, Oparil S, Muntner P. Apparent treatment-resistant hypertension among individuals with history of stroke or transient ischemic attack. *Am J Med.* 2015 Jul;128(7):707-714.e2. [PMCID: PMC4475646].
175. Agarwal SK, Chao J, Peace F, Judd SE, Kissela B, Kleindorfer D, **Howard VJ**, Howard G, Soliman EZ. Premature ventricular complexes on screening electrocardiogram and risk of ischemic stroke. *Stroke.* 2015 May;46(5):1365-7.[PMCID: PMC4414890].
176. O'Neal WT, Lakoski SG, Qureshi W, Judd SE, Howard G, **Howard VJ**, Cushman M, Soliman EZ. Relation between cancer and atrial fibrillation (from the REasons for Geographic And Racial Differences in Stroke Study). *Am J Cardiol.* 2015 Apr 15;115(8):1090-4. [PMCID: PMC4380860].
177. Kaplan RM, **Howard VJ**, Safford MM, Howard G. Educational attainment and longevity: results from the REGARDS US national cohort study of blacks and whites. *Ann Epidemiol.* 2015 May;25(5):323-8. [PMCID: PMC4631606].
178. **Howard VJ**, McDonnell MN. Physical activity in primary stroke prevention: just do it! Topical Review. *Stroke.* 2015 Jun;46(6):1735-9. [PMCID: PMC not applicable]



179. Buys DR, **Howard VJ**, McClure LA, Buys KC, Sawyer P, et al. Association between neighborhood disadvantage and hypertension prevalence, awareness, treatment, and control in older adults: results from the University of Alabama at Birmingham Study of Aging. *Am J Public Health*. 2015 Jun;105(6):1181-8. [PMCID: PMC4431086].
180. Howard G, Banach M, Cushman M, Goff DC, **Howard VJ**, et al. Is blood pressure control for stroke prevention the correct goal? The lost opportunity of preventing hypertension. *Stroke*. 2015 Jun;46(6):1595-600. [PMCID: PMC4924927].
181. Kim C, Cushman M, Khodneva Y, Lisabeth LD, Judd S, Kleindorfer DO, **Howard VJ**, Safford MM. Risk of incident coronary heart disease events in men compared to women by menopause type and race. *J Am Heart Assoc*. 2015 Jul 1;4(7). [PMCID: PMC4608073].
182. Howard G, Hopkins LN, Moore WS, Katzen BT, Chakhtoura E, Morrish WF, Ferguson RD, Hye RJ, Shawl FA, Harrigan MR, Voeks JH, **Howard VJ**, Lal BK, Meschia JF, Brott TG. Temporal changes in periprocedural events in the carotid revascularization endarterectomy versus stenting trial. *Stroke*. 2015 Aug;46(8):2183-9. [PMCID: PMC4586027].
183. Thompson BG, Brown RD Jr, Amin-Hanjani S, Broderick JP, Cockroft KM, Connolly ES Jr, Duckwiler GR, Harris CC, **Howard VJ**, Johnston SC, Meyers PM, Molyneux A, Ogilvy CS, Ringer AJ, Torner J; American Heart Association Stroke Council, Council on Cardiovascular and Stroke Nursing, and Council on Epidemiology and Prevention; American Heart Association; American Stroke Association. Guidelines for the management of patients with unruptured intracranial aneurysms: A Guideline for Healthcare Professionals from the American Heart Association/American Stroke Association. *Stroke*. 2015 Aug;46(8):2368-400. [PMCID: PMC not applicable].
184. Cutter GR, Zimmerman J, Salter AR, Knappertz V, Suarez G, Waterbor J, **Howard VJ**, Marrie RA. Causes of death among persons with multiple sclerosis. *Mult Scler Relat Disord*. 2015 Sep;4(5):484-90. [PMCID: PMC not applicable]
185. Schellinger PD, Alexandrov AV, Barreto AD, Demchuk AM, Tsivgoulis G, . . **Howard V**, et al for the CLOTBUSTER Investigators. Combined lysis of thrombus with ultrasound and systemic tissue plasminogen activator for emergent revascularization in acute ischemic stroke (CLOTBUST-ER): design and methodology of a multinational phase 3 trial. *Int J Stroke*. 2015 Oct;10(7):1141-8. [PMCID: PMC not applicable].
186. O'Neal WT, Qureshi WT, Judd SE, Bowling CB, **Howard VJ**, et al. Effect of falls on frequency of atrial fibrillation and mortality risk (from the REasons for Geographic And Racial Differences in Stroke Study). *Am J Cardiol*. 2015 Oct 15;116(8):1213-8. [PMCID: PMC4589487].
187. O'Neal WT, **Howard VJ**, Kleindorfer D, Kissela B, Judd SE, et al. Interrelationship between electrocardiographic left ventricular hypertrophy, QT prolongation, and ischaemic stroke: The REasons for Geographic and Racial Differences in Stroke Study. *Europace*. 2016 May;18(5):767-72. [PMCID: PMC4880112]
188. O'Neal WT, Soliman EZ, Howard G, **Howard VJ**, Safford MM, et al. Inflammation and hemostasis in atrial fibrillation and coronary heart disease: The REasons for Geographic And Racial Differences in Stroke study. *Atherosclerosis*. 2015 Nov;243(1):192-7. [PMCID: PMC4634936].

189. O'Neal WT, Qureshi WT, Judd SE, McClure LA, Cushman M, **Howard VJ**, Howard G, Soliman EZ. Environmental Tobacco Smoke and Atrial Fibrillation: The REasons for Geographic And Racial Differences in Stroke (REGARDS) Study. *J Occup Environ Med*. 2015 Nov;57(11):1154-8. [PMCID: PMC4636018].
190. O'Neal WT, Qureshi W, Judd SE, Glasser SP, Ghazi L, Pulley L, **Howard VJ**, Howard G, Soliman EZ. Perceived Stress and Atrial Fibrillation: The REasons for Geographic and Racial Differences in Stroke Study. *Ann Behav Med*. 2015 Dec;49(6):802-8. [PMCID: PMC4936185]
191. Sheffet AJ, Voeks JH, Mackey A, Brooks W, Clark WM, Hill MD, **Howard VJ**, et al. Characteristics of participants consenting versus declining follow-up for up to 10 years in a randomized clinical trial. *Clin Trials*. 2015 Dec;12(6):657-63. [PMCID: PMC4652580].
192. O'Neal WT, Qureshi WT, Judd SE, Meschia JF, **Howard VJ**, et al. Heart rate and ischemic stroke: the REasons for Geographic And Racial Differences in Stroke (REGARDS) study. *Int J Stroke*. 2015 Dec;10(8):1229-35. [PMCID: PMC4938895] .
193. Zhu W, **Howard VJ**, Wadley VG, Hutto B, Blair SN, et al. Association between objectively measured physical activity and cognitive function in older adults-The Reasons for Geographic and Racial Differences in Stroke study. *J Am Geriatr Soc*. 2015 Dec;63(12):2447-2454. [PMCID: PMC4688903].
194. De Rango P, Brown MM, Chaturvedi S, **Howard VJ**, Jovin T, et al. Summary of evidence on early carotid intervention for recently symptomatic stenosis based on meta-analysis of current risks. *Stroke*. 2015 Dec;46(12):3423-36. [PMCID not applicable]
195. Lewis MW, Khodneva Y, Redmond N, Durant RW, Judd SE, Wilkinson LL, **Howard VJ**, Safford MM. The impact of the combination of income and education on the incidence of coronary heart disease in the prospective Reasons for Geographic and Racial Differences in Stroke (REGARDS) cohort study. *BMC Public Health*. 2015 Dec 29;15:1312. [PMCID: PMC4696109].
196. Cummings DM, Kirian K, Howard G, **Howard V**, Yuan Y, Muntner P, Kissela B, Redmond N, Judd SE, Safford. Consequences of comorbidity of elevated stress and/or depressive symptoms and incident cardiovascular outcomes in diabetes: Results from the REasons for Geographic And Racial Differences in Stroke (REGARDS) study. *Diabetes Care*. 2016 Jan;39(1):101-9. [PMCID: PMC4876731].
197. Judd SE, Morgan CJ, Panwar B, **Howard VJ**, Wadley VG, et al. Vitamin D deficiency and incident stroke risk in community-living black and white adults. *Int J Stroke*. 2016 Jan;11(1):93-102. [PMCID: PMC4920062].
198. Mozaffarian D, Benjamin EJ, Go AS, Arnett DK, Blaha MJ, Cushman M, Das SR, de Ferranti S, Després JP, Fullerton HJ, **Howard VJ**, et al. Executive Summary: Heart Disease and Stroke Statistics-2016 Update: A Report From the American Heart Association. *Circulation*. 2016 Jan 26;133(4):447-54. PubMed PMID: 26811276.[PMCID not applicable]
199. Mozaffarian D, Benjamin EJ, Go AS, Arnett DK, Blaha MJ, Cushman M, Das SR, de Ferranti S, Després JP, Fullerton HJ, **Howard VJ**, et al. Heart Disease and Stroke Statistics-2016 Update: A Report From the American Heart Association. *Circulation*. 2016 Jan 26;133(4):e38-e360. PubMed PMID: 26673558. [PMCID not applicable]

200. Albright KC, Boehme AK, Tanner RM, Blackburn J, Howard G, **Howard VJ**, Safford M, Beasley M, Limdi N. Addressing stroke risk factors in white and black Americans: Findings from the National Health and Nutrition Examination Survey (NHANES), 2009-2010. *Ethn Dis* 2016 Jan 21;26(11) 9-16 [PMCID: PMC4738860].
201. Howard G, Kissela BM, Kleindorfer DO, McClure LA, Soliman EZ, Judd SE, Rhodes JD, Cushman M, Moy CS, Sands KA, **Howard VJ**. Differences in the role of black race and stroke risk factors for first vs recurrent stroke. *Neurology*. 2016 Feb 16;86(7):637-42. [PMCID: PMC4762422].
202. O'Neal WT, Efird JT, Judd SE, McClure LA, **Howard VJ**, Howard G, Soliman EZ. Impact of Awareness and Patterns of Nonhospitalized Atrial Fibrillation on the Risk of Mortality: The Reasons for Geographic And Racial Differences in Stroke (REGARDS) Study. *Clin Cardiol*. 2016 Feb;39(2):103-10. [PMCID: PMC4769105].
203. McDonnell MN, Hillier SL, Judd SE, Yuan Y, Hooker SP, **Howard VJ**. Association between television viewing time and risk of incident stroke in a general population: Results from the REGARDS study. *Prev Med* 2016 Jun;87:1-5 [PMCID: PMC4884524]
204. **Howard VJ**, Safford MM, Allen S, Judd SE, Rhodes JD, et al. Stroke Symptoms as a predictor of future hospitalization. *J Stroke Cerebrovasc Dis*. 2016 Mar;25(3):702-9. [PMCID: PMC4779679].
205. Diaz KM, **Howard VJ**, Hutto B, Colabianchi N, Vena JE, et al. Patterns of sedentary behavior in US middle-age and older adults: The REGARDS Study. *Med Sci Sports Exerc*. 2016 Mar;48(3):430-8. [PMCID: PMC4760895].
206. Brott TG, Howard G, Roubin GS, Meschia JF, Mackey A, Brooks W, Moore WS, Hill MD, Mantese VA, Clark WM, Timaran CH, Heck D, Leimgruber PP, Sheffet AJ, **Howard VJ**, Chaturvedi S, Lal BK, Voeks JH, Hobson RW 2nd; CREST Investigators. Long-Term Results of Stenting versus Endarterectomy for Carotid-Artery Stenosis. *N Engl J Med*. 2016 Mar 17;374(11):1021-31. [PMCID: PMC4874663].
207. Hooker SP, Hutto B, Zhu W, Blair SN, Colabianchi N, Vena JE, Rhodes D, **Howard VJ**. Accelerometer measured sedentary behavior and physical activity in white and black adults: The REGARDS study. *J Sci Med Sport*. 2016 Apr;19(4):336-41. [PMCID: PMC4609218].
208. Roth DL, Skarupski KA, Crews DC, **Howard VJ**, Locher JL. Distinct age and self-rated health crossover mortality effects for African Americans: Evidence from a national cohort study. *Soc Sci Med*. 2016 May;156:12-20. [PMCID: PMC in process]
209. Howard G, Moy CS, **Howard VJ**, McClure LA, Kleindorfer DO, Kissela BM, Judd SE, Unverzagt FW, Soliman EZ, Safford MM, Cushman M, Flaherty ML, Wadley VG; REGARDS Investigators. Where to Focus Efforts to Reduce the Black-White Disparity in Stroke Mortality: Incidence Versus Case Fatality? *Stroke*. 2016 Jul;47(7):1893-8.[PMCID: PMC4927373].
210. Limdi N, **Howard VJ**, Higginbotham J, Parton J, Safford MM, Howard G. US mortality: Influence of race, geography, and cardiovascular risk among participants in the population-based REGARDS cohort. *Journal of Racial and Ethnic Health Disparities*. 2015 Nov 5 [Epub ahead of print] [PMCID: PMC4911314].

211. Nahab F, Pearson K, Frankel MR, Ard J, Safford MM, Kleindorfer D, **Howard VJ**, Judd S. Dietary fried fish intake increases risk of CVD: The REGARDS study. *Public Health Nutr.* 2016 Jun 24;1-10. [PMCID: PMC in process].
212. Zhu W, **Howard VJ**, Wadley VG, Hutto B, Vena JE, Colabianchi N, Hooker SP. Longitudinal association between low- and high-light intensity physical activity and cognitive function In Older Adults: REGARDS Study. *Med Sci Sports Exerc.* 2016 May;48(5 Suppl 1):557. [PMCID: PMC in process].
213. Colantonio LD, Gamboa CM, Kleindorfer DO, Carson AP, **Howard VJ**, Muntner, Cushman M, Howard G, Safford MM. Stroke symptoms and risk for incident coronary heart disease in the REasons for Geographic And Racial Differences in Stroke Study. *Int J Cardiol* 2016 Oct 1;220:122-8. [PMCID: PMC4983497].
214. O'Neal WT, Judd SE, Limdi NA, McIntyre WF, Kleindorfer DO, Cushman M, **Howard VJ**, Howard G, Soliman EZ. Differential impact of risk factors in blacks and whites in the development of atrial fibrillation: The Reasons for Geographic And Racial Differences in Stroke (REGARDS) Study. *J Racial Ethn Health Disparities.* 2017 Aug;4(4):718-724. [PMCID: PMC5313388].
215. O'Neal WT, Kamel H, Kleindorfer D, Judd SE, Howard G, **Howard VJ**, Soliman EZ. Premature atrial contractions on the screening electrocardiogram and risk of ischemic stroke: The Reasons for Geographic and Racial Differences in Stroke Study. *Neuroepidemiology* 2016;47(1):53-58. [PMCID: PMC5018917]
216. Thacker EL, Soliman EZ, Pulley L, Safford MM, Howard G, **Howard VJ**. Investigation of selection bias in the association of race with prevalent atrial fibrillation in a national cohort study: REasons for Geographic And Racial Differences in Stroke (REGARDS). *Ann Epidemiol* 2016 Aug;26(8):534-9. [PMCID: PMC5040466].
217. O'Neal WT, Soliman EZ, Eford JT, Judd SE, **Howard VJ**, Howard G, McClure LA. Fine particulate air pollution and premature atrial contractions: The REasons for Geographic And Racial Differences in Stroke Study. *J Expo Sci Environ Epidemiol* 2017 May;27(3):271-275. [PMCID: PMC5457811]
218. **Howard VJ**, McClure LA, Kleindorfer DO, Cunningham SA, Thrift AG, Diez Roux AV, Howard G. Neighborhood socioeconomic index and stroke incidence in a national cohort of blacks and whites. *Neurology* 2016 Nov 29;87(22):2340-2347 [PMCID: PMC5135020]
219. Labarthe DR, Howard G, Safford MM, **Howard VJ**, Judd SE, Cushman M, Kissela BM. Incidence and case fatality at the county level as contributors to geographic disparities in stroke mortality. *Neuroepidemiology* 2016 Sep 15;47(2):96-102 [PMCID: PMC5121010]
220. Howard G, Safford MM, Moy CS, **Howard VJ**, Kleindorfer, Unverzagt FW, Soliman EZ, Flaherty ML, McClure LA, Lackland DT, Wadley VH, Pulley L, Cushman M. Racial differences in the incidence of cardiovascular risk factors in older black and white adults. *J Am Geriatr Soc* 2017 Jan;65(1): 83-90 [PMCID: PMC5258649]
221. Cushman M, Callas PW, McClure LA, Unverzagt FW, **Howard VJ**, Gillett SR, Thacker EL, Wadley VG. N-terminal pro-B-type natriuretic peptide and risk of future cognitive impairment in the REGARDS cohort. *J Alzheimers Dis* 2016 Sep 6;54(2):497-503 [PMCID: in process]

222. Jackson JL, Judd SE, Panwar B, **Howard VJ**, Wadley VG, Jenny NS, Gutierrez OM. Associations of 25-hydroxyvitamin D with markers of inflammation, insulin resistance and obesity in black and white community-dwelling adults. *J Clin Trans Endocrinol*. 2016 Sep; 5:21-25 [PMCID: PMC5098550]
223. Zhu W, Wadley VG, **Howard VJ**, Hutto B, Blair SN, Hooker SP. Objectively measured physical activity and cognitive function in older adults. *Med. Sci. Sports Exerc*. 2017 Jan;49(1): 47-53. [PMCID: PMC5161659]
224. Dawood FZ, Judd S, **Howard VJ**, Limdi NA, Meschia JF, Cushman M, Howard G, Herrington DM, Soliman EZ. High-sensitivity C-reactive protein and risk of stroke in atrial fibrillation (from the REGARDS study). *Am J Cardiol* 2016 Dec 15;118(12):1826-1830 [PMCID: PMC5127742]
225. Panwar B, Judd SE, **Howard VJ**, Jenny NS, Wadley VG, Gutierrez OM. Vitamin D and Fibroblast Growth Factor 23 and Incident Cognitive Impairment: Findings from the REGARDS Study. *PLoS One* 2016 Nov 3;11(11):e0165671 [PMCID: PMC5094718]
226. Thrift AG, Thayabaranathan T, Howard G, **Howard VJ**, Rothwell PM, Feigin VL, Norrving B, Donnan GA, Cadilhac DA. Global stroke statistics. *Int J Stroke* 2017;12(1) pp. 13-22 [PMCID not applicable]
227. Cunningham SA, Mosher A, Judd SE, Matz LM, Kabagambe EK, Moy CS, **Howard VJ**. Alcohol consumption and incident stroke among older adults. *J Gerontol B Psychol Sci Soc Sci* 2018 Apr 16;73(4):636-648. [PMCID: PMC6018946].
228. Dufouil C, Beiser AS, McClure LA, Wolf PA, Tzourio C, **Howard VJ**, . . . Seshadri S. A revised Framingham stroke risk profile to reflect temporal trends. *Circulation* 2017 Mar 21;135(12):1145-1159 Feb 3 [epub ahead of print] [PMCID: PMC5504355]
229. Banach M, Rizzo M, Nikolic D, Howard G, **Howard VJ**, Mikhailidis DP. Intensive LDL-Cholesterol lowering therapy and neurocognitive function. *Pharmacology & Therapeutics* 2017 Feb;170:181-191. [PMCID not applicable]
230. Landry KK, Alexander KS, Zakai N, Judd E, Kleindorfer DO, **Howard VJ**, Howard G, Cushman M. Association of stroke risk biomarkers with stroke symptoms: The REGARDS cohort. *J Thrombosis and Haemostasis* 2017 Jan;115(1):21-27. [PMCID: PMC5280457]
231. Vladutiu CJ, Meyer ML, Malek AM, Stuebe AM, Mosher A, Aggarwal S, Kleindorfer D, **Howard VJ**. Racial differences in the association between parity and incident stroke: Results from the Reasons for Geographic and Racial Differences in Stroke study. *J Stroke Cerebrovasc Dis* 2017 Apr;26(4):749-755 [Epub ahead of print 2016 Nov 7] [PMCID: PMC5362279]
232. McDonald L, Bertke S, Hein MJ, Judd S, Baron S, Merritt R, **Howard VJ**. Prevalence of Cardiovascular health by occupation: A cross-sectional analysis among US workers aged  $\geq 45$  Years. *Am J Prev Med* 2017 Aug;53(2):152-161. [PMCID: PMC5522644]
233. **Howard VJ**, Meschia JF, Lal BK, Turan TN, Roubin GS, Brown, Jr. RB, Voeks JH, Barrett KM, Demaerschalk BM, Huston III, J, Lazar RM, Moore WS, Wadley VG, Chaturvedi S, Moy CS, Chimowitz M, Howard G, Brott TG on behalf of the CREST-2 Study Investigators. *Int J of Stroke* 2017 Oct;12(7):770-778. [PMCID: PMC5987521]

234. Albright, KC, Zhao H, Blackburn J, Limdi N, Beasley TM, Howard G, Bittner V, **Howard VJ**, Muntner P. Racial differences in statin adherence following hospital discharge for ischemic stroke. *Neurology* 2017 May 9;88(19):1839-1848. [PMCID: PMC5419984]
235. Albright KC, **Howard VJ**, Howard G, Muntner P, Bittner V, Safford MM, Boehme AK, Rhodes JD, Beasley TM, Judd SE, McClure LA, Limdi N, Blackburn J. Age and sex disparities in discharge statin prescribing in the stroke belt: evidence from the REGARDS study. *J Am Heart Assoc* 2017 Aug 2;6(8). [PMCID: PMC5586419]
236. Bose A, O'Neal WT, Bennett A, Judd SE, Qureshi WT, Sui X, **Howard VJ**, Howard G, Soliman EZ. Relation between estimated cardiorespiratory fitness and atrial fibrillation (from the REasons for Geographic and Racial Differences in Stroke Study.) *Am J of Cardiology* 2017 Jun 1;119(11):1776-1780. [PMCID: PMC in progress]
237. De Rango P, Simonte G, **Howard VJ**, et al. Safety of Carotid Revascularization during the Acute Period of Neurological Symptom Onset in Women. *Ann Vasc Surg.* 2017 Oct;44:343-352. [PMCID: not applicable]
238. Diaz KM, **Howard VJ**, Hutto B, Colabianchi N, Vena JE, Safford MM, Blair SN, Hooker SP. Patterns of Sedentary Behavior and Mortality in U.S. Middle-Aged and Older Adults: A National Cohort Study. *Ann Intern Med.* 2017 Sep 12. doi:10.7326/M17-0212. [Epub ahead of print] [PMCID: in progress]
239. Gorelick PB, Furie KL, Iadecola C, Smith EE, Waddy SP, Lloyd-Jones DM, Bae HJ, Bauman MA, Dichgans M, Duncan PW, Girgus M, **Howard VJ**, et al. Defining Optimal Brain Health in Adults: A Presidential Advisory From the American Heart Association/American Stroke Association. *Stroke.* 2017 Sep 7. [Epub ahead of print] Review. [PMCID: PMC5654545]
240. Demaerschalk BM, Brown RD Jr, Roubin GS, **Howard VJ**, Cesko E, Barrett KM, Longbottom ME, Voeks JH, Chaturvedi S, Brott TG, Lal BK, Meschia JF, Howard G; CREST-2 Investigators. Factors Associated With Time to Site Activation, Randomization, and Enrollment Performance in a Stroke Prevention Trial. *Stroke.* 2017 Sep;48(9):2511-2518. Epub 2017 Aug 2. [PMCID: PMC5575963]
241. Lichtman JH, Jones MR, Leifheit EC, Sheffet AJ, Howard G, Lal BK, **Howard VJ**, Wang Y, Curtis J, Brott TG. Carotid endarterectomy and carotid artery stenting in the US Medicare population, 1999-2014. *JAMA* 2017;318(11):1035-1046. [PMCID:PMC5818799]
242. Howard G, Kleindorfer DO, Cushman M, . . . **Howard VJ**. Contributors to the Excess Stroke Mortality in Rural Areas in the United States. *Stroke* 2017;48:1773-1778.[PMCID:PMC5502731]
243. Thrift AG, Howard G, Cadilhac DA, **Howard VJ**, Rothwell PM, Thayabaranathan T, Feigin VL, Norrving B, Donnan GA. Global stroke statistics: An update of mortality data from countries using a broad code of "cerebrovascular diseases". *Int J Stroke.* 2017 Oct;12(8):796-801 Epub 2017 Sep 12. [PMCID: NA]
244. Soliman EZ, Zhang ZM, Judd S, **Howard VJ**, Howard G. Comparison of Risk of Atrial Fibrillation Among Employed Versus Unemployed (from the REasons for Geographic and Racial Differences in Stroke Study). *Am J Cardiol.* 2017 Oct 15;120(8):1298-1301. [PMCID: PMC5614836]

245. Sheffet AJ, Howard G, Sam A, Jamil Z, Weaver F, Chiu D, Voeks JH, **Howard VJ**, Hughes SE, Flaxman L, Longbottom ME, Brott TG; CREST Investigators. Challenge and Yield of Enrolling Racially and Ethnically Diverse Patient Populations in Low Event Rate Clinical Trials. *Stroke*. 2018 Jan;49(1):84-89. Epub 2017 Nov 30. [PMCID: PMC5823533]
246. Tsinovoi CL, Xun P, McClure LA, Carioni VMO, Brockman JD, Cai J, Guallar E, Cushman M, Unverzagt FW, **Howard VJ**, He K. Arsenic Exposure in Relation to Ischemic Stroke: The Reasons for Geographic and Racial Differences in Stroke Study. *Stroke*. 2018 Jan;49(1):19-26. [PMCID: PMC5742041]
247. Akinyemiju T, Moore JX, Pisu M, Judd SE, Goodman M, Shikany JM, **Howard VJ**, Safford M, Gilchrist SC. A Prospective Study of Obesity, Metabolic Health, and Cancer Mortality. *Obesity (Silver Spring)*. 2018 Jan;26(1):193-201.[PMCID: PMC5739969]
248. Bajaj NS, Gutiérrez OM, Arora G, Judd SE, Patel N, Bennett A, Prabhu SD, Howard G, **Howard VJ**, Cushman M, Arora P. Racial Differences in Plasma Levels of N-Terminal Pro-B-Type Natriuretic Peptide and Outcomes: The Reasons for Geographic and Racial Differences in Stroke (REGARDS) Study. *JAMA Cardiol*. 2018 Jan 1;3(1):11-17. [PMCID: PMC5833525]
249. Blackburn J, Albright KC, Haley WE, **Howard VJ**, Roth DL, Safford MM, Kilgore ML. Men Lacking a Caregiver Have Greater Risk of Long-Term Nursing Home Placement After Stroke. *J Am Geriatr Soc*. 2018 Jan;66(1):133-139. [PMCID: PMC5777871]
250. Imtiaz Ahmad M, Mosley CD, O'Neal WT, Judd SE, McClure LA, **Howard VJ**, Howard G, Soliman EZ. Smoking and risk of atrial fibrillation in the REasons for Geographic And Racial Differences in Stroke (REGARDS) study. *J Cardiol*. 2018 Feb;71(2):113-117. [PMCID: PMC5735021]
251. Howard G, **Howard VJ**. Design and implementation of observational studies to measure disease burden with a focus on stroke. *Int J Stroke*. 2018 Feb;13(2):157-165. [PMCID: not applicable]
252. Akinyemiju T, Moore JX, Judd SE, Pisu M, Goodman M, **Howard VJ**, Long L, Safford M, Gilchrist SC, Cushman M. Pre-diagnostic biomarkers of metabolic dysregulation and cancer mortality. *Oncotarget*. 2018 Feb 23;9(22):16099-16109. [PMCID: PMC5882320]
253. Madsen TE, **Howard VJ**, Jiménez M, Rexrode KM, Acelajado MC, Kleindorfer D, Chaturvedi S. Impact of Conventional Stroke Risk Factors on Stroke in Women: An Update. *Stroke*. 2018 Mar;49(3):536-542. [PMCID: PMC5828997]
254. Panwar B, Judd SE, Wadley VG, Jenny NS, **Howard VJ**, Safford MM, Gutiérrez OM. Association of Fibroblast Growth Factor 23 With Risk of Incident Coronary Heart Disease in Community-Living Adults. *JAMA Cardiol*. 2018 Mar 7. [PMCID: PMC5875372]
255. Levine DA, Wadley VG, Langa KM, Unverzagt FW, Kabeto MU, Giordani B, Howard G, **Howard VJ**, Cushman M, Judd SE, Galecki AT. Risk Factors for Poststroke Cognitive Decline: The REGARDS Study (Reasons for Geographic and Racial Differences in Stroke). *Stroke*. 2018 Apr;49(4):987-994. [PMCID: PMC6419761]

256. Charles BA, Hsieh MM, Adeyemo AA, Shriner D, Ramos E, Chin K, Srivastava K, Zakai NA, Cushman M, McClure LA, **Howard V**, Flegel WA, Rotimi CN, Rodgers GP. Analyses of genome wide association data, cytokines, and gene expression in African-Americans with benign ethnic neutropenia. *PLoS One*. 2018 Mar 29;13(3):e0194400. [PMCID: PMC5875757]
257. Akinyemiju T, Moore JX, Judd SE, Pisu M, Goodman M, **Howard VJ**, Long L, Safford M, Gilchrist SC, Cushman M. Pre-diagnostic biomarkers of metabolic dysregulation and cancer mortality. *Oncotarget*. 2018 Feb 23;9(22):16099-16109. [PMCID: PMC5882320]
258. Hyacinth HI, Carty CL, Seals SR, Irvin MR, Naik RP, Burke GL, Zakai NA, Wilson JG, Franceschini N, Winkler CA, David VA, Kopp JB, Judd SE, Adams RJ, Longstreth WT Jr, Egede L, Lackland DT, Taylor H, Manson JE, **Howard V**, Allison M, Gee BE, et al. Association of Sickle Cell Trait With Ischemic Stroke Among African Americans: A Meta-analysis. *JAMA Neurol*. 2018 Jul 1;75(7):802-807. [PMCID: PMC6145767]
259. Navi BB, Howard G, **Howard VJ**, Zhao H, Judd SE, Elkind MSV, Iadecola C, DeAngelis LM, Kamel H, Okin PM, Gilchrist S, Soliman EZ, Cushman M, Muntner P. New diagnosis of cancer and the risk of subsequent cerebrovascular events. *Neurology*. 2018 Jun 5;90(23):e2025-e2033. [PMCID: PMC5993181]
260. Venkatraman A, Callas P, McClure LA, Unverzagt F, Arora G, **Howard V**, Wadley VG, Cushman M, Arora P. Galectin-3 and incident cognitive impairment in REGARDS, a cohort of blacks and whites. *Alzheimers Dement (N Y)*. 2018 Apr 26;4:165-172. [PMCID: PMC5944416]
261. Wettersten N, Cushman M, **Howard VJ**, Hartmann O, Filippatos G, Beri N, Clopton P, Howard G, Safford MM, Judd SE, Bergmann A, Struck J, Maisel AS. Usefulness of Proneurotensin to Predict Cardiovascular and All-Cause Mortality in a United States Population (from the Reasons for Geographic and Racial Differences in Stroke Study). *Am J Cardiol*. 2018 Jul 1;122(1):26-32. [PMCID: in progress]
262. Sui X, **Howard VJ**, McDonnell MN, Ernstsens L, Flaherty ML, Hooker SP, Lavie CJ. Racial Differences in the Association Between Nonexercise Estimated Cardiorespiratory Fitness and Incident Stroke. *Mayo Clin Proc*. 2018 Jul;93(7):884-894. [PMCID: PMC6154797]
263. Bushnell C, **Howard VJ**, Lisabeth L, Caso V, Gall S, Kleindorfer D, Chaturvedi S, Madsen TE, Demel SL, Lee SJ, Reeves M. Sex differences in the evaluation and treatment of acute ischaemic stroke. *Lancet Neurol*. 2018 Jul;17(7):641-650. PMID: 29914709. [PMCID: not applicable]
264. Howard G, Schwamm LH, Donnelly JP, **Howard VJ**, Jasne A, Smith EE, Rhodes JD, Kissela BM, Fonarow GC, Kleindorfer DO, Albright KC. Participation in Get With The Guidelines-Stroke and Its Association With Quality of Care for Stroke. *JAMA Neurol*. 2018 Nov 1;75(11):1331-1337. [PMCID: PMC6248106]
265. Penson PE, Long DL, Howard G, Toth PP, Muntner P, **Howard VJ**, Safford MM, Jones SR, Martin SS, Mazidi M, Catapano AL, Banach M. Associations between very low concentrations of low density lipoprotein cholesterol, high sensitivity C-reactive protein, and health outcomes in the Reasons for Geographical and Racial Differences in Stroke (REGARDS) study. *Eur Heart J*. 2018 Oct 21;39(40):3641-3653. [PMCID: PMC6195947]



266. Ghazi L, Bennett A, Petrov ME, **Howard VJ**, Safford MM, Soliman EZ, Glasser SP. Race, Sex, Age, and Regional Differences in the Association of Obstructive Sleep Apnea With Atrial Fibrillation: Reasons for Geographic and Racial Differences in Stroke Study. *J Clin Sleep Med*. 2018 Sep 15;14(9):1485-1493. [PMCID: PMC6134254]
267. Leifheit EC, Wang Y, Howard G, **Howard VJ**, Goldstein LB, Brott TG, Lichtman JH. Outcomes after carotid endarterectomy among elderly dual Medicare-Medicaid-eligible patients. *Neurology*. 2018 Oct 23;91(17):e1553-e1558. [PMCID: PMC6205687]
268. Howard G, Cushman M, Moy CS, Oparil S, Muntner P, Lackland DT, Manly JJ, Flaherty ML, Judd SE, Wadley VG, Long DL, **Howard VJ**. Association of Clinical and Social Factors With Excess Hypertension Risk in Black Compared With White US Adults. *JAMA*. 2018 Oct 2;320(13):1338-1348. [PMCID:PMC6233849]
269. Albright KC, Huang L, Blackburn J, Howard G, Mullen M, Bittner V, Muntner P, **Howard V**. Racial differences in recurrent ischemic stroke risk and recurrent stroke case fatality. *Neurology*. 2018 Nov 6;91(19):e1741-e1750. [PMCID: PMC6251602]
270. Petrov ME, Howard G, Grandner MA, Kleindorfer D, Molano JR, **Howard VJ**. Sleep duration and risk of incident stroke by age, sex, and race: The REGARDS study. *Neurology*. 2018 Oct 30;91(18):e1702 e1709. [PMCID: PMC6207412]
271. Gray MS, Lakkur S, **Howard VJ**, Pearson K, Shikany JM, Safford M, Gutiérrez OM, Colabianchi N, Judd SE. The Association between Residence in a Food Desert Census Tract and Adherence to Dietary Patterns in the REGARDS Cohort. *Food Public Health*. 2018;8(4):79-85. [PMCID: PMC6714990]
272. Gowey MA, Khodneva Y, Tison SE, Carson AP, Cherrington AL, **Howard VJ**, Safford MM, Dutton GR. Depressive symptoms, perceived stress, and metabolic health: The REGARDS study. *Int J Obes (Lond)*. 2019 Mar;43(3):615-632. [PMCID: PMC6405306]
273. Diaz KM, Duran AT, Colabianchi N, Judd SE, **Howard VJ**, Hooker SP. Potential Effects of Replacing Sedentary Time With Short Sedentary Bouts or Physical Activity on Mortality: A National Cohort Study. *Am J Epidemiol*. 2019 Mar 1;188(3):537-544. [PMCID: PMC6395167]
274. Chen M, Creger T, **Howard V**, Judd SE, Harrington KF, Fontaine KR. Association of community food environment and obesity among US adults: a geographical information system analysis. *J Epidemiol Community Health*. 2019 Feb;73(2):148-155. [PMCID: in process]
275. **Howard VJ**, Madsen TE, Kleindorfer DO, Judd SE, Rhodes JD, Soliman EZ, Kissela BM, Safford MM, Moy CS, McClure LA, Howard G, Cushman M. Sex and Race Differences in the Association of Incident Ischemic Stroke With Risk Factors. *Excess*. 2019 Feb 1;76(2):179-186. [PMCID: PMC6439952]
276. Penson P, Long DL, Howard G, **Howard VJ**, Jones SR, Martin SS, Mikhailidis DP, Muntner P, Rizzo M, Rader DJ, Safford MM, Sahebkar A, Toth PP, Banach M. Associations between cardiovascular disease, cancer, and very low high-density lipoprotein cholesterol in the REasons for Geographical and Racial Differences in Stroke (REGARDS) study. *Cardiovasc Res*. 2019 Jan 1;115(1):204-212. [PMCID: PMC6302258]

277. Moore WS, Voeks JH, Roubin GS, Clark WM, **Howard VJ**, Jones MR, Brott TG; CREST Investigators. Duration of asymptomatic status and outcomes following carotid endarterectomy and carotid artery stenting in the Carotid Revascularization Endarterectomy vs Stenting Trial. *J Vasc Surg*. 2019 Jun;69(6):1797-1800. [PMCID: PMC6548589]
278. Norling AM, Marshall RS, Pavol MA, Howard G, **Howard V**, Liebeskind D, Huston J 3rd, Lal BK, Brott TG, Lazar RM. Is Hemispheric Hypoperfusion a Treatable Cause of Cognitive Impairment? *Curr Cardiol Rep*. 2019 Jan 19;21(1):4. [PMCID: not applicable]
279. Bose A, O'Neal WT, Wu C, McClure LA, Judd SE, **Howard VJ**, Howard G, Soliman EZ. Sex Differences in Risk Factors for Incident Atrial Fibrillation (from the Reasons for Geographic and Racial Differences in Stroke [REGARDS] Study). *Am J Cardiol*. 2019 May 1;123(9):1453-1457. Epub 2019 Feb 10. [PMCID: in process]
280. Pistilli M, **Howard VJ**, Safford MM, Lee BK, Lovasi GS, Cushman M, Malek AM, McClure LA; REGARDS Investigators. Association of secondhand tobacco smoke exposure during childhood on adult cardiovascular disease risk among never-smokers. *Ann Epidemiol*. 2019 Apr;32:28-34.e1. [PMCID: PMC6441374.
281. Fujishiro K, MacDonald LA, Crowe M, McClure LA, **Howard VJ**, Wadley VG. The Role of Occupation in Explaining Cognitive Functioning in Later Life: Education and Occupational Complexity in a U.S. National Sample of Black and White Men and Women. *J Gerontol B Psychol Sci Soc Sci*. 2019 Sep 15;74(7):1189-1199. [PMCID: PMC6748817]
282. Patel N, Gutierrez OM, Arora G, Howard G, **Howard VJ**, Judd SE, Prabhu SD, Levitan E, Cushman M, Arora P. Race-Based Demographic, Anthropometric and Clinical Correlates of N-Terminal-Pro B-Type Natriuretic Peptide. *Int J Cardiol* 2019. Jul 1;286:145-151. [PMCID: 6980359]
283. Elfassy T, Grasset L, Glymour M, Swift S, Zhang L, Howard G, **Howard VJ**, Flaherty M, Rundek T, Calonico S, Osypuk TL, Al Hazzouri A. Sociodemographic disparities in long-term mortality among stroke survivors in the United States: the REGARDS study. *Stroke*. 2019 Apr;50(4):805-812. [PMCID: PMC6433483]
284. Passler JS, Kennedy RE, Clay OJ, Crowe M, **Howard VJ**, Cushman M, Unverzagt FW, Wadley VG. The relationship of longitudinal cognitive change to self-reported IADL in a general population. *Neuropsychol Dev Cogn B Aging Neuropsychol Cogn*. 2020 Jan;27(1):125-139. Epub 2019 Mar 27. [PMCID: PMC6764909]
285. Twardzik E, Judd SE, Bennett A, Hooker S, **Howard VJ**, Hutto B, Clarke P, Colabianchi N. Walk Score® and Objectively Measured Physical Activity within a National Cohort. *J Epidemiol Community Health*. 2019 Jun;73(6):549-556. [PMCID: PMC6581093]
286. Parekh TM, Wu C, McClure LA, **Howard VJ**, Cushman M, Malek AM, Harrington KF, Cherrington AL, Dransfield MT, Bhatia S. Determinants of cigarette smoking status in a national cohort of black and white adult ever smokers in the USA: a cross-sectional analysis of the REGARDS study. *BMJ Open*. 2019 May 10;9(5):e027175. [PMCID: PMC6530531]

287. Fekedulegn D, Alterman T, Charles LE, Kershaw KN, Safford MM, **Howard VJ**, MacDonald LA. Prevalence of workplace discrimination and mistreatment in a national sample of older U.S. workers: The REGARDS cohort study. *SSM Popul Health*. 2019 Jul 2;8:100444. [PMCID: PMC6612926]
288. Malek AM, Vladutiu CJ, Meyer ML, Cushman M, Newman R, Lisabeth LD, Kleindorfer D, Lakkur S, **Howard VJ**. The association of age at menopause and all-cause and cause-specific mortality by race, postmenopausal hormone use, and smoking status. *Prev Med Rep*. 2019 Jul 14;15:100955. [PMCID: PMC6651856]
289. Malla G, Long DL, Judd SE, Irvin MR, Kissela BM, Lackland DT, Safford MM, Levine DA, **Howard VJ**, Howard G, Rhodes JD, Voeks JH, Kleindorfer DO, Anderson A, Meschia JF, Carson AP. Does the Association of Diabetes With Stroke Risk Differ by Age, Race, and Sex? Results From the REasons for Geographic and Racial Differences in Stroke (REGARDS) Study. *Diabetes Care*. 2019 Oct;42(10):1966-1972. [PMCID: PMC7011202]
290. Madsen TE, Howard G, Kleindorfer DO, Furie KL, Oparil S, Manson JE, Liu S, **Howard VJ**. Sex Differences in Hypertension and Stroke Risk in the REGARDS Study: A Longitudinal Cohort Study. *Hypertension*. 2019 Oct;74(4):749-755. [PMCID: PMC6741430]
291. Akinyemiju T, Moore JX, Pisu M, Goodman M, **Howard VJ**, Safford M, Gilchrist SC, Cushman M, Long L, Judd SE. Association of baseline inflammatory biomarkers with cancer mortality in the REGARDS cohort. *Oncotarget*. 2019 Aug 6;10(47):4857-4867. [PMCID: PMC6690671]
292. Evans CR, Long DL, Howard G, McClure LA, Zakai NA, Jenny NS, Kissela BM, Safford MM, **Howard VJ**, Cushman M. C-reactive protein and stroke risk in blacks and whites: The REasons for Geographic And Racial Differences in Stroke cohort. *Am Heart J*. 2019 Nov;217:94-100. [PMCID: PMC6861684]
293. Zahodne LB, Sharifian N, Manly JJ, Sumner JA, Crowe M, Wadley VG, **Howard VJ**, Murchland AR, Brenowitz WD, Weuve J. Life course biopsychosocial effects of retrospective childhood social support and later-life cognition. *Psychol Aging*. 2019 Nov;34(7):867-883. [PMCID: PMC6829036]
294. Brenowitz WD, Manly JJ, Murchland AR, Xuan Nguyen TT, Liu SY, Glymour MM, Levine DA, Crowe M, Hohman TJ, Dufouil C, Launer LJ, Hedden T, Eng CW, Wadley VG, **Howard VJ**. State School Policies as Predictors of Physical and Mental Health: A Natural Experiment in the REGARDS Cohort. *Am J Epidemiol*. 2020 May 5;189(5):384-393. doi: 10.1093/aje/kwz221. PMID: 31595946; PMCID: PMC7306678.
295. Navi BB, Howard G, **Howard VJ**, Zhao H, Judd SE, Elkind MSV, Iadecola C, DeAngelis LM, Kamel H, Okin PM, Gilchrist S, Soliman EZ, Cushman M, Safford M, Muntner P. The risk of arterial thromboembolic events after cancer diagnosis. *Res Pract Thromb Haemost*. 2019 Jun 9;3(4):639-651. [PMCID: PMC6781919]
296. Paul S, Judd SE, **Howard VJ**, Safford MS, Gutiérrez OM. Association of 25-hydroxyvitamin D with incident coronary heart disease in the Reasons for Geographic and Racial Differences in Stroke (REGARDS) study. *Am Heart J*. 2019 Nov;217:140-147. Doi:10.1016/j.ahj.2019.08.011 Epub 2019 Aug 19. PMID:31629964; PMCID: PMC6861690.

297. Roth DL, Haley WE, David Rhodes J, Sheehan OC, Huang J, Blinka MD, Yuan Y, Irvin MR, Jenny N, Durda P, Cushman M, Walston JD, **Howard VJ**. Transitions to family caregiving: enrolling incident caregivers and matched non-caregiving controls from a population-based study. *Aging Clin Exp Res*. 2020 Sep; 32(9):1829-1838. doi:10.1007/s40520-019-01370-9. Epub 2019 Oct 9. PMID:31630377; PMCID: PMC in process.
298. Bereznyakova O, Dewar B, Dowlatshahi D, **Howard V**, Hamel C, Gocan S, Fedyk M, Shamy M. Benefit of carotid revascularisation for women with symptomatic carotid stenosis: protocol for a systematic review. *BMJ Open*. 2019 Nov 11;9(11):e032140. PMID: 31719088; PMCID: PMC6858193]
299. Roger VL, Sidney S, Fairchild AL, **Howard VJ**, Labarthe DR, Shay CM, Tiner AC, Whitsel LP, Rosamond WD; on behalf of the American Heart Association Advocacy Coordinating Committee. Recommendations for cardiovascular health and disease surveillance for 2030 and beyond: a policy statement from the American Heart Association. *Circulation*. 2020 Mar 3;141(9):e104-e119. doi: 10.1161/CIR.0000000000000756 Epub 2020 Jan 29. PMID: 31992050.
300. Kamel H, Zhang C, Kleindorfer DO, Levitan EB, **Howard VJ**, Howard G, Soliman EZ, Johnston C. Association of Black Race With Early Recurrence After Minor Ischemic Stroke or Transient Ischemic Attack: Secondary Analysis of the POINT Randomized Clinical Trial. *JAMA Neurol*. 2020 May 1;77(5):601-605. doi: 10.1001/jamaneurol.2020.0010. PMID: 32091536; PMCID: PMC7042873.
301. Howard G, **Howard VJ**. Twenty years of Progress Toward Understanding the Stroke Belt. *Stroke*. 2020 Mar;51(3):742-750. doi: 10.1161/STROKEAHA.119.024155. Epub 2020 Feb 12. PMID: 32078485.
302. Kim J, Thayabaranathan T, Donnan GA, Howard G, **Howard VJ**, Rothwell PM, Feigin V, Norrving B, Owolabi M, Pandian J, Liu L, Cadilhac DA, Thrift AG. Global stroke statistics 2019. *Int J Stroke* 2020 Oct;15(8):819-838. doi: 10.1177/1747493020909545. Epub 2020 Mar 9. PMID: 32146867.
303. Sawano M, Yuan Y, Kohsaka S, Inohara T, Suzuki T, Okamura T, Howard G, **Howard VJ**, Judd S, Soliman EZ, Cushman M. Electrocardiographic ST-T Abnormalities Are Associated With Stroke Risk in the REGARDS Study. *Stroke*. 2020 Apr;51(4):1100-1106. doi: 10.1161/STROKEAHA.119.028069. Epub 2020 Mar 4. PMID: 32126939; PMCID: PMC7122793
304. Sarfo FS, Akinyemi R, Howard G, **Howard VJ**, Wahab K, Cushman M, Levine DA, Ogunniyi A, Unverzagt F, Owolabi M, Ovbiagele B. Vascular-brain Injury Progression after Stroke (VIPS) study: concept for understanding racial and geographic determinants of cognitive decline after stroke. *J Neurol Sci*. 2020 May 15;412:116754. doi: 10.1016/j.jns.2020.116754. Epub 2020 Feb 19. PMID: 32120131.
305. Meschia JF, Barrett KM, Brown RD Jr, Turan TN, **Howard VJ**, Voeks JH, Lal BK, Howard G, Brott TG. The CREST-2 experience with the evolving challenges of COVID-19: A clinical trial in a pandemic. *Neurology*. 2020 Jul 7;95(1):29-36. doi: 10.1212/WNL.0000000000009698. Epub 2020 May 1. PMID: 3358216; PMCID: PMC7371383.
306. Tajeu GS, Safford MM, Howard G, **Howard VJ**, Chen L, Long DL, Tanner RM, Muntner P. Black-White Differences in Cardiovascular Disease Mortality: A Prospective US Study, 2003-2017. *Am J Public Health*. 2020 May;110(5):696-703. doi: 10.2105/AJPH.2019.305543. Epub 2020 Mar 19. PMID: 32191519; PMCID: PMC7144446.

307. Soliman EZ, Howard G, Judd S, Bhavé PD, **Howard VJ**, Herrington DM. Factors Modifying the Risk of Atrial Fibrillation Associated With Atrial Premature Complexes in Patients With Hypertension. *Am J Cardiol*. 2020 May 1;125(9):1324-1331. doi: 10.1016/j.amjcard.2020.02.006. Epub 2020 Feb 8. PMID: 32139160; PMCID: PMC7150624.
308. Fujishiro K, MacDonald LA, **Howard VJ**. Job complexity and hazardous working conditions: How do they explain educational gradient in mortality? *J Occup Health Psychol*. 2020 Jun;25(3):176-186. doi: 10.1037/ocp0000171. Epub 2019 Sep 30. PMID: 31566401; PMCID: PMC7103547.
309. Petrov ME, Long DL, Grandner MA, MacDonald L, Cribbet MR, Robbins, Cundiff JM, Molano JR, Hoffman C, Wang X, Howard G, **Howard VJ**. Racial Differences in Sleep Duration Intersect with Sex, Socioeconomic Status, and U.S. Geographic Region: The REGARDS Study. *Sleep Health* 2020 Aug;6(4):442-450. doi: 10.1016/j.sleh.2020.05.004. Epub 2020 Jun 26. PMID: 32601040; PMCID in process.
310. O'Neal WT, Bennett A, Singleton MJ, Judd SE, Howard G, **Howard VJ**, Hooker SP, Soliman EZ. Objectively measured physical activity and the risk of atrial fibrillation (from the REGARDS Study). *Am J Cardiol* 2020 Aug 1;128:107-112. doi: 10.1016/j.amjcard.2020.05.004. Epub 2020 May 15 PMID: 32650902; PMCID in process.
311. Singleton MJ, Ahmad MI, O'Neal WT, Kamel H, Judd SE, **Howard VJ**, Howard G, Soliman EZ, Bhavé PD. Association of atrial fibrillation without cardiovascular comorbidities and stroke risk: From the REGARDS study. *J Am Heart Assoc*. 2020 Jun 16;9(12):e016380. doi: 10.1161/JAHA.120.016380. Epub 2020 Jun 4. PMID: 32495723; PMCID: PMC7429041.
312. Roth DL, Haley WE, Sheehan OC, Huang J, Rhodes, JD, Durda P, **Howard VJ**, Walston, JD, Cushman, M. The transition to family caregiving and its effect on biomarkers of inflammation. *Proc Natl Acad Sci USA* 2020 Jul 14;117(28): 16258-16263. doi: 10.1073/pnas.2000792117. Epub 2020 Jun 24. PMID: 32581123; PMCID: PMC7368336.
313. Gilchrist SC, **Howard VJ**, Akinyemiju T, Judd SE, Cushman M, Hooker SP, Diaz KM. Association of sedentary behavior with cancer mortality in middle-aged and older adults. *JAMA Oncology* 2020 Aug 1;6(8):1210-1217. doi: 10.1001/jamaoncol.2020.2045. PMID: 32556069; PMCID: PMC7303924.
314. Nicoli CD, **Howard VJ**, Judd SE, Struck J, Manly JJ, Cushman M. Pro-neurotensin/neuromedin N and risk of incident cognitive impairment in a prospective study. *J Alzheimers Dis* 2020; 76 (4): 1403-1412. doi: 10.3233/JAD-20046. PMID: 32623400; PMCID in process.
315. Zhu W, Cheng Z, **Howard VJ**, Judd SE, Blair SN, Sun Y, Hooker SP. Is adiposity associated with objectively measured physical activity and sedentary behaviors in older adults? *BMC Geriatr*. 2020 Jul 28;20(1):257. doi: 10.1186/s12877-020-01664-y. PMID: 32723295; PMCID: PMC7389373.
316. Landry KK, Judd SE, Kleindorfer DO, Howard G, **Howard VJ**, Zakai NA, Cushman M. N-Terminal Pro-B-type natriuretic peptide and stroke risk across a spectrum of cerebrovascular disease: The REGARDS cohort. *Res Pract Thromb Haemost*. 2020 Jun 14;4(5):893-901. doi: 10.1002/rth2.12365. PMID: 32685900; PMCID: PMC7354407.

317. Reshetnyak E, Ntamatungiro M, Pinheiro LC, **Howard VJ**, Carson AP, Martin KD, Safford MM. The Impact of Multiple Social Determinants of Health on Incident Stroke *Stroke*. 2020 Aug;51(8):2445-2453. doi: 10.1161/STROKEAHA.120.028530. Epub 2020 Jul 16. PMID: 32673521; PMCID in process.
318. Passler JS, Kennedy RE, Crowe M, Clay OJ, **Howard VJ**, Cushman M, Unverzagt FW, Wadley VG. The relationship of cognitive change over time to the self-reported Ascertain Dementia 8-item Questionnaire in a general population. *Arch Clin Neuropsychol*. 2021 Feb 12;36(2): 243-252. doi: 10.1093/arclin/acz045. PMID: 32613226; PMCID: PMC7881974.
319. Akinyemiju T, Wilson LE, Deveaux A, Aslibekyan S, Cushman M, Gilchrist S, Safford M, Judd S, **Howard V**. Association of allostatic load with all-cause and cancer mortality by race and body mass index in the REGARDS cohort. *Cancers (Basel)*. 2020 Jun 26;12(6):1695. doi: 10.3390/cancers12061695. PMID: 32604717; PMCID:PMC7352652.
320. Liwo, ANN, **Howard VJ**, Zhu S, Martin MY, Safford MM, Cummings DM, Richman JS, Carson AP. Elevated depressive symptoms and risk of all-cause and cardiovascular mortality among adults with and without diabetes: The REGARDS Study. *J Diabetes Complications*. 2020 Oct;34(10):107672. doi: 10.1016/j.jdiacomp.2020.107672. Epub 2020 Jul 6. PMID: 32684424.
321. Plante TB, Koh I, Judd SE, Howard G, **Howard VJ**, Zakai NA, Booth JN 3rd, Safford M, Muntner P, Cushman M. Life's Simple 7 and Incident Hypertension: The REasons for Geographic and Racial Differences in Stroke (REGARDS) Study. *J Am Heart Assoc* 2020 Oct 20;9(19):e016482. doi:10.1161/JAHA.120.016482. Epub 2020 Sep 15. PMID: 32928039; PMCID: PMC7792383.
322. Haley WE, Roth DL, Sheehan OC, Rhodes JD, Huang J, Blinka MD, **Howard VJ**. Effects of transitions to family caregiving on well-being: A longitudinal population-based study. *Effects of Transitions to Family Caregiving on Well-Being: A Longitudinal Population-Based Study*. *J Am Geriatr Soc*. 2020 Dec;68(12):2839-2846. doi: 10.1111/jgs.16778. Epub 2020 Aug 24. PMID: 32835436; PMCID in progress.
323. Lackland DT, **Howard VJ**, Cushman M, Oparil S, Kissela B, Safford MM, Kleindorfer DO, McClure LA, Howard G. Forty year shifting distribution of systolic blood pressure with population hypertension treatment and control. *Circulation* 2020 Oct 20;142(16):1524-1531. doi:10.1161/CIRCULATIONAHA.120.048063. Epub 2020 Oct 5. PMID: 33016101; PMCID: PMC7578084.
324. Chen M, Creger T, **Howard V**, Judd SE, Harrington KF, Fontaine KR. Geospatial analysis of Mediterranean diet adherence in the United States. *Public Health Nutr*. 2020 Aug 3:1-9. doi: 10.1017/S1368980020001135. Epub ahead of print. PMID: 32744198.
325. Chen M, Howard V, Harrington KF, Creger T, Judd SE, Fontaine KR. Does Adherence to Mediterranean Diet Mediate the Association Between Food Environment and Obesity Among Non-Hispanic Black and White Older US Adults? A Path Analysis. *Am J Health Promot*. 2020 Jul;34(6):652-658. doi: 10.1177/0890117120905240. Epub 2020 Feb 12. PMID: 32048856.
326. Sheehan OC, Haley WE, **Howard VJ**, Huang J, Rhodes JD, Roth DL. Stress, burden, and well-being in dementia and non-dementia caregivers: Insights from the Caregiving Transitions Study. *Gerontologist*

- 2020 Aug 20:gnaa108. doi: 10.1093/geront/gnaa108. Epub ahead of print. PMID: 32816014; PMCID in process.
327. Brown JR, Hirsch JA, Judd SE, Hurvitz PM, **Howard VJ**, Safford M, Moore J, Lovasi GS. The Association of Neighborhood Medical Facilities with Aging in Place and Risk of Incident Myocardial Infarction. *J Aging Health*. 2021 Mar; 33(3-4): 227-236. doi: 10.1177/0898264320975228. Epub 2020 Nov 30. PMID:33251918; PMCID in process.
328. Elkind MSV, Lisabeth L, **Howard VJ**, Kleindorfer D, Howard G. Approaches to studying determinants of race-ethnic disparities in stroke and its sequelae. *Stroke* 2020 Nov;51(11):3406-3416. doi: 10.1161/STROKEAHA.120.030424. Epub 2020 Oct 26. PMID: 33104476; PMCID: PMC7594194.
329. Ekelund U, Tarp J, Fagerland MW, Johannessen JS, Hansen BH, Jefferis BJ, Whincup PH, Diaz KM, Hooker S, **Howard VJ**, Chernofsky A, Larson MG, Spartano N, Vasan RS, Dohrn IM, Hagströmer M, Edwardson C, Yates T, Shiroma EJ, Dempsey P, Wijndaele K, Anderssen SA, Lee IM. Joint associations of accelerometer measured physical activity and sedentary time with all-cause mortality: a harmonized meta-analysis in more than 44 000 middle-aged and older individuals. *Br J Sports Med*. 2020 Dec;54(24):1499-1506. doi: 10.1136/bjsports-2020-103270. PMID: 33239356; PMCID: PMC7719907.
330. Cushman M, Shay CM, **Howard VJ**, Jimenez MC, Lewey J, McSweeney JC, Newby LK, Poudel R, Reynolds HR, Rexrode KM, Sims M, Mosca LJ. Ten-year differences in women's awareness related to coronary heart disease: Results of the 2019 American Heart Association National Survey: A special report from the American Heart Association. *Circulation* 2021 Feb 16;143(7):e239-e248. doi: 10.1161/CIR.0000000000000907. Epub 2020 Sep 21. PMID: 32954796.
331. Liu C, Fabius CD, **Howard VJ**, Haley WE, Roth DL. Change in social engagement among incident caregivers and controls: Findings from the Caregiving Transitions Study. *J Aging Health* 2021 Jan;33(1-2):114-124. doi: 10.1177/0898264320961946. Epub 2020 Sep 23. PMID: 32962491; PMCID in process.
332. Ford CD, Gray MS, Crowther MR, Wadley VG, Austin AL, Crowe MG, Pulley L, Unverzagt F, Kleindorfer DO, Kissela BM, **Howard VJ**. Depressive symptoms and risk of stroke in a national cohort of blacks and whites from REGARDS. *Neurology: Clinical Practice* 2020, 10.1212/CPJ.0000000000000983; doi: 10.1212/CPJ.0000000000000983. PMCID in process.
333. Gower B, Pearson K, Bush N, Shikany JM, **Howard VJ**, Cohen CW, Tison SE, Howard G, Judd S. Diet pattern may affect fasting insulin in a large sample of black and white adults. *Eur J Clin Nutr*. 2021 Apr;75(4):628-635. doi: 10.1038/s41430-020-00762-9. Epub 2020 Oct 6. PMID: 33024285; PMCID in process.
334. Carson AP, Long DL, Cherrington AL, Dutton GR, **Howard VJ**, Brown TM, Howard G, Safford MM, Cushman M. Sex differences in factors contributing to the racial disparity in diabetes risk. *Am J of Prev Med* 2021 Apr; 60(4):e169-e177. doi: 10.1016/j.amepre.2020.09.016. Epub 2020 Dec 2. PMID: 33279367; PMCID: PMC7987785.
335. Blackston JW, Safford MM, Mefford MT, Freeze E, Howard G, **Howard VJ**, Naftel DC, Brown TM, Levitan EB. Cardiovascular disease events and mortality after myocardial infarction among black and white adults: REGARDS study. *Circ Cardiovasc Qual Outcomes*. 2020 Dec;13(12):e006683. doi: 10.1161/CIRCOUTCOMES.120.006683. Epub 2020 Dec 11. PMID: 33302710; PMCID: PMC7853403.

336. Plante TB, Long DL, Guo B, Howard G, Carson AP, **Howard VJ**, Judd SE, Jenny NS, Zakai NA, Cushman M. C-reactive protein and hypertension incidence in black and white Americans: REasons for Geographic And Racial Differences in Stroke (REGARDS) study. *Am J Hypertens*. 2020 Dec 16;hpa215. doi: 10.1093/ajh/hpa215. Epub ahead of print. PMID: 33326556.
337. Lazar RM, **Howard VJ**, Kernan WN, Aparicio HJ, Levine DA, Viera AJ, Jordan LC, Nyenhuis DL, Possin KL, Sorond FA, White C; American Heart Association Stroke Council. A Primary Care Agenda for Brain Health: A Scientific Statement from the American Heart Association. *Stroke*. 2021 Mar 15: STR0000000000000367. doi:10.1161/STR.0000000000000367. Epub ahead of print. PMID: 33719523.
338. Arce Renteria M, Gillett SR, McClure LA, Wadley VG, Glasser SP, Howard VJ, Kissela BM, Unverzagt FW, Jenny NS, Manly JJ, Cushman M. C-reactive protein and risk of cognitive decline: The REGARDS study. *PLoS One*. 2020 Dec 31;15(12):e0244612. doi: 10.1371/journal.pone.0244612. PMID: 33382815; PMCID: PMC7774911.
339. Hyacinth HI, Franceschini N, Seals SR, . . . **Howard V**, . . . Safford MM. Association of sickle cell trait with incidence of coronary heart disease among African American individuals. *JAMA Netw Open*. 2021 Jan 4;4(1): e2030435. doi: 10.1001/jamanetworkopen.2020.3043. PMID: 33399855; PMCID: PMC7786247.
340. Liu C, Roth DL, Gottesman RF, Sheehan OC, Blinka MD, **Howard VJ**, Judd SE, Cushman M. Change in Life's Simple 7 measure of cardiovascular health after incident stroke: The REGARDS Study. *Stroke* 2021 Mar;52(3):878-886. doi: 10.1161/STROKEAHA.120.030836. Epub 2021 Jan 20. PMID: 33467879; PMCID: PMC7902464.
341. Nicoli CD, Wettersten N, Judd SE, Howard G, **Howard VJ**, Struck J, Cushman M. Pro-neurotensin/neuromedin N and risk of stroke: The REGARDS study. *Vasc Med*. 2020 Dec;25(6):534-540. doi: 10.1177/1358863X20957406. Epub 2020 Oct 22. PMID: 33089749; PMCID: PMC in process.
342. **Howard VJ**, Algra A, Howard G, Bonati LH, de Borst GJ, Bulbulia R, Calvet D, Eckstein H, Fraedrich G, Greving J, Halliday A, Hendrikse J, Jansen O, Brown MM, Mas J, Ringleb PA, Brott TG on behalf of the Carotid Stenosis Trialists' Collaboration. Absence of consistent sex differences in outcomes from symptomatic carotid endarterectomy and stenting randomized trials. *Stroke* 2021 Jan;52(2): 416-423. doi: 10.1161/STROKEAHA.120.030184. Epub 2021 Jan 25. PMID: 33493046; PMCID: PMC in process.
343. Couch CA, Gray MS, Shikany JM, **Howard VJ**, Howard G, Long DL, McClure LA, Manly JJ, Cushman M, Zakai NA, Pearson KE, Levitan EB, Judd SE. Correlates of a southern diet pattern in a national cohort study of blacks and whites: the REasons for Geographic And Racial Differences in Stroke (REGARDS) study. *Br J Nutr*. 2021 Feb 26:1-7. doi: 10.1017/S0007114521000696. Epub ahead of print. PMID: 33632366; PMCID: PMC in process.
344. Jones AC, Chaudhary NS, Patki A, Howard VJ, Howard G, Colabianchi N, Judd SE, Irvin MR. Neighborhood Walkability as a Predictor of Incident Hypertension in a National Cohort Study. *Front Public Health*. 2021 Feb 1;9:611895. doi: 10.3389/fpubh.2021.611895. PMID: 33598444; PMCID: PMC7882902.



345. Oelsner EC, Allen NB, Ali T, . . . **Howard VJ**, . . . ; C4R Investigators. Collaborative Cohort of Cohorts for COVID-19 Research (C4R) Study: Study Design. medRxiv [Preprint]. 2021 Mar 20:2021.03.19.21253986. doi: 10.1101/2021.03.19.21253986. PMID: 33758891; PMCID: PMC7987050.
346. Yogendrakumar V, Shamy M, Dewar B, Fergusson D, Dowlatshahi, Hamel C, Gocan S, Fedyk, Mas JL, **Howard V**, Rothwell P, Bereznaykova O; WoW-CAD Investigators. Identifying sex-specific differences in the carotid revascularization literature: findings from a scoping review. *Stroke Vasc Neurol* 2021 Mar 29;svn-2020-000744. doi: 10.1136/svn-2020-000744. Epub ahead of print. PMID: 33782196.
347. Strong B, Pudar J, Thrift AG, **Howard VJ**, Hussain M, Carcel C, de los Campos, Reeves MJ. Sex disparities in enrollment in recent randomized clinical trials of acute stroke: a meta-analysis. *JAMA Neurol* 2021 Apr 26:e210873. doi:10.1001/jamaneurol.2021.0873. Epub ahead of print. PMID: 33900363; PMCID: PMC8077045.
348. Bailey MJ, Soliman EZ, McClure LA, Howard G, **Howard VJ**, Judd SE, Unverzagt F, Wadley V, Sachs BC, Hughes TM. Relation of atrial fibrillation to cognitive decline (from the REasons for Geographic and Racial Differences in Stroke [REGARDS] study). *Am J Cardiol* 2021 Jun 1;148:60-68. doi:10.1016/j.amjcard.201.02.036. Epub 2021 Mar 6. PMID: 33684372; PMCID: PMC in process.
349. Murthy SB, Zhang C, Diaz I, Levitan EB, Koton S, Bartz TM, DeRosa JT, Strobino K, Colantonio LD, Iadecola C, Safford MM, **Howard VJ**, Longstreth WT Jr, Gottesman RF, Sacco RL, Elkind MSV, Howard G, Kamel H. Association between intracerebral hemorrhage and subsequent arterial ischemic events in participants from 4 population-based cohort studies. *JAMA Neurol* 2021 May 3:e210925. doi:10.1001/jamaneurol.20210925. Epub ahead of print. PMID: 33938907; PMCID: PMC8094038.
350. Chastin S, McGregor D, Palarea-Albaladejo, Diaz KM, Hagstromer M, Hallal PC, van Hees VT, Hooker S, **Howard VJ**, Lee I, von Rosen P, Sabia S, Shiroma EJ, Yerramalla MS, Dall P. Joint association between accelerometry-measured daily combination of time spent in physical activity, sedentary behaviour and sleep and all-cause mortality: a pooled analysis of six prospective cohorts using compositional analysis. *Br J Sports Med* 2021;0:1-10. doi:10.1136/bjsports-2020-102345. Epub ahead of print May 19, 2021.
351. Cummings DM, Patil SP, Long DL, Guo B, Cherrington A, Safford MM, Judd SE, **Howard VJ**, Howard G, Carson AP. Does the Association Between Hemoglobin A1c and Risk of Cardiovascular Events Vary by Residential Segregation? The REasons for Geographic And Racial Differences in Stroke (REGARDS) Study. *Diabetes Care*. 2021 May;44(5):1151-1158. doi:10.2337/dc20-1710. Epub 2021 May 6. PMID: 33958425; PMCID: PMC in process.
352. Albright KC, **Howard VJ**, Howard G. Selecting an Optimal Antiplatelet Agent for Secondary Stroke Prevention. *Neurol Clin Pract*. 2021 Apr;11(2):e121-e128. doi: 10.1212/CPJ.0000000000000842. PMID: 33842080; PMCID: PMC8032446.
353. Merkler A, Bartz T, Kamel H, Soliman EZ, **Howard VJ**, Psaty B, Okin PM, Safford MM, Elkind M, Longstreth WT. Silent myocardial infarction and subsequent ischemic stroke in the Cardiovascular Health Study. In press, *Neurology*, 2021
354. Lazar RM, Wadley VG, Myers T, Jones MR, Heck DV, Clark WM, Marshall RS, **Howard VJ**, Voeks JH, Manly JJ, Moy CS, Chaturvedi S, Meschia JF, Lal BK, Brott TG, Howard G. Baseline cognition in the

Carotid Revascularization and Medical Management for Asymptomatic Carotid Stenosis Trial (CREST-2). In press, *Stroke*, 2021.

355. Pudar J, Strong B, **Howard VJ**, Reeves MJ. Reporting of results by sex in randomized controlled trials of acute stroke therapies (2010-2020). In press, *Stroke*, 2021.
356. Madsen TW, Long DL, Carson AP, Howard G, Kleindorfer DO, Furie KL, Manson JE, Liu S, **Howard VJ**. Sex and race differences in the risk of ischemic stroke associated with fasting blood glucose in REGARDS. In press, *Neurology*, 2021.

Submitted:

1. Singleton MJ, Yuan Y, Dawood FZ, Howard G, Judd SE, Zakai NA, **Howard VJ**, Herrington DM, Soliman EZ, Cushman M. Multi-biomarker prediction of risk of stroke in atrial fibrillation: The REGARDS Study.
2. Zakai NA, Koh I, Judd SE, **Howard VJ**, Dittus K, Kleindorfer DO, Kissela B, Plante TB, Howard G, Cushman M. Explanation for the racial differences in intracerebral hemorrhage risk: The REGARDS Study.
3. Thacker EL, Letter AJ, Unverzagt FW, Clark DG, McClure LA, **Howard VJ**, Cushman M, Levine DA, Kelley BJ, Kleindorfer DO, Kissela BM, Howard G, Manly JJ, Wadley VG. Cognition assessed in mid to late adulthood and risk of incident stroke: The REGARDS study.
4. Sta. Cruz S, Vable AM, Cohen AK, Glymour MM, Allen S, Bennett A, Long DL, Crowe M, Manly JJ, Wadley VG, **Howard VJ**, Yen IH. Education and health: An evaluation of differential returns by sex, childhood socioeconomic status, race, and geography.
5. Manly JJ, Murchland AR, Nguyen T, . . . **Howard VJ**. Race and place specific measures of childhood school quality: Validation and relationship to health and cognitive function in later life.
6. Elman C, Cunningham SA, **Howard VJ**, Judd S, Bennett AM, Dupre ME. Region, race, and risk: 'Stroke Belt' birth and later life stroke and mortality in a national US cohort. *Currently in revised and resubmit.*
7. Twardzik E, Kim Y, Verma M, Judd S, **Howard VJ**, Cunningham S, Keindorfer D, Colabianchi N. Neighborhood income deprivation, inequality, and segregation relationship with stroke risk in a large national United States cohort.
8. Cundiff JM, Bennett A, Carson AP, Judd SE, **Howard VJ**. Socioeconomic status and perceived stress: Examining intersection with race, sex, and US geographic region in the REasons for Geographic and Racial Differences in Stroke study. *Currently in revise and resubmit.*
9. Martin KD, Beckles GL, Wu C, McClure LA, Carson AP, Bennett A, Bullard KM, Glymour M, Unverzagt F, Cunningham S, Imperatore G, **Howard VJ**. Lifecourse socioeconomic position and diabetes incidence in the REasons for Geographic and Racial Differences in Stroke (REGARDS) Study, 2003-2016. *Currently in revise and resubmit.*
10. Chang TE, Goldstein LB, Leifheit EC, **Howard VJ**, Lichtman JH. Cardiovascular risk factor profiles and

emergency department visits for women and men with a history of stroke or TIA.

11. Levitan EB, **Howard VJ**, Cushman M, Judd SE, Tison SE, Yuan Y, Kamin Mukaz D, Wang HE, Pamir N, Plante T, Juraschek SP, Safford MM, Goyal P. Race, social determinants of health, and health care experience during the COVID-19 pandemic: The REGARDS Study.
12. Carcel C, Harris K, Peters SAE, Sandset EC, Balicki G, Bushnell CD, **Howard VJ**, Reeves MJ, Anderson CS, Kelly PJ, Woodward M. Representation of women in stroke clinical trials: a review of 281 trials involving over 500,000 participants. *Currently in revise and resubmit.*

#### INVITED EDITORIALS/COMMENTARY

1. Toole JF, Hobson RW, **Howard VJ**, Chambless LE: Nearing the finish line? The Asymptomatic Carotid Atherosclerosis Study. *Stroke* 1992;23:1054–1055.
2. Howard G, **Howard VJ**. The end of the stroke belt? It may be too early to declare victory! *Stroke* 1995;26:1150–1152.
3. **Howard VJ**, Rosamond W. Identifying risk factors for perioperative outcomes after carotid endarterectomy: The story continues. *Stroke* 2003;34:2573–2575.
4. **Howard VJ**. From sea to shining sea: what is it about where you live and your stroke risk? *Stroke* 2007;38:2210–2.
5. Howard G, Hess DC, **Howard VJ**. Wisdom and determination in the ongoing pursuit of the ever-elusive neuroprotective agent. *Stroke* 2011;42(6):1505-6. PubMed PMID: 21546483.
6. Hess DC, **Howard VJ**, Howard G. Minocycline: The search for a community hospital acute stroke therapy. *Neurology India* 2012;60(1)1-2. PubMed PMID: 22406771.
7. **Howard VJ**, Kissela BM. How do we know if we are making progress in reducing the public health burden of stroke? *Stroke* 2012;43(8):2033-4. PubMed PMID: 22764212.
8. **Howard VJ**. What is it about neighborhood characteristics that influence survival after a stroke or TIA? *Neurology* 2012;79(12):1190-1. PubMed PMID: 22895594.
9. Sidney S, Rosamond WD, **Howard VJ**, Luepker RV; National Forum for Heart Disease and Stroke Prevention. The “heart disease and stroke statistics—2013 update” and the need for a national cardiovascular surveillance. *Circulation* 2013;127(1):21-23. PubMed PMID: 23239838.
10. **Howard VJ**, Thrift AG. Preventing stroke on the street where you live, work, and play. *Lancet Public Health*. 2018 Apr;3(4):e158-e159. Epub 2018 Mar 15.

#### MISCELLANEOUS

1. **Howard VJ**, Toole JF, Howard G. *Stroke* 1990;21:678–679 (Letter)

2. **Howard VJ.** Asymptomatic Carotid Atherosclerosis Study: A progress report. *American Heart Association Stroke Council Newsletter*, (Robert J. Adams, ed.). Winter 1991–1992, 12–13.
3. Castaldo JE, Toole JF, **Howard VJ** for the ACAS Executive Committee. Surgical treatment of asymptomatic carotid stenosis (Letter). *Ann Intern Med* 1996;125:516–517.
4. Mukherjee D, Yadav JS, **Howard VJ**, Howard G, Baker WH. Effect of contralateral occlusion on long-term efficacy of endarterectomy in the Asymptomatic Carotid Atherosclerosis Study (ACAS) Response. *Stroke* 2001;32:1447–8.
5. **Howard VJ**, Acker J, Gomez CR, Griffies AH, Magers W, Michael M III, Orr SR, Phillips M, Raczynski JM, Searcy JE, Zweifler RM, Howard G for the Delta States Stroke Consortium. An approach to coordinate efforts to reduce the public health burden of stroke: The Delta States Stroke Consortium. *Prev Chronic Dis* 2004 Oct Available from: [http://www.cdc.gov/pcd/issues/2004/oct/03\\_0037.htm](http://www.cdc.gov/pcd/issues/2004/oct/03_0037.htm)
6. Wadley VG, **Howard VJ**, McClure LA, Cushman M, Howard G. Reply to Dr. Ismailov. *Ann Neurol* 2013;73(1):146-147.
7. De Rango P, **Howard VJ**, Caso V; writers of the Consensus Document on Women. Uncertainty in management of carotid stenosis in women. *JAMA Surg.* 2014 Apr;149(4):401-2.
8. Brott TG, Voeks JH, **Howard VJ**. Stenting versus Surgery for Carotid Stenosis. Response. *N Engl J Med.* 2016 Aug 11;375(6):604-5.
9. **Howard VJ**, Howard G, Cushman M. Inclusivity of Diverse Patient Groups-Reply. *JAMA Neurol.* 2019 Jun 3. doi: 10.1001/jamaneurol.2019.1390.
10. Response by G. Howard and **V.J. Howard** to Letter Regarding Article, "Twenty Years of Progress Toward Understanding the Stroke Belt". *Stroke.* 2020 Jun;51(6):e114-e115. doi: 10.1161/STROKEAHA.120.029633. Epub 2020 Apr 24. PMID: 32326871.