

CURRICULUM VITAE

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PERSONAL INFORMATION:

BIRTHPLACE: Tarboro, North Carolina

CITIZENSHIP: U.S.A.

EDUCATION:

1969-1973 St. Andrews Presbyterian College
Laurinburg, North Carolina
B.A. (Math and Business)

1974-1976 Graduate School
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina
M.S. (Operations Research)

*Thesis: An application of mathematical programming techniques to
the redistricting of the Chapel Hill-Carrboro city school system.
Advisor: Dr. John Evans*

1976-1979 School of Business and Economics
University of North Carolina at Greensboro
Greensboro, North Carolina
MBA (Finance and Marketing)

1980-1982 School of Public Health
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina
M.S.P.H. (Biostatistics)

*Thesis: Suggestion and evaluation of a regional cerebral blood flow
parameter for the evaluation of "slippage."
Advisor: Dr. Dana Quade*

1981-1987
 School of Public Health
 University of North Carolina at Chapel Hill
 Chapel Hill, North Carolina
 DrPH (Biostatistics)
Dissertation: "An Evaluation of General Linear Models to Log-Rank Scores for Analysis of Failure Time Data: With Applications to Survival Following Stroke, in the North Carolina Comprehensive Stroke Program"
Advisor: Dr. Gary Koch

EMPLOYMENT:

1974-1975
 Research Assistant and Applications Programmer
 Duke University
 Institute of Public Policy Sciences
 Durham, North Carolina

1974-1976
 Applications Programmer
 Department of Computer Assisted Instruction School of Medicine
 University of North Carolina at Chapel Hill
 Chapel Hill, North Carolina

1976-1978
 Research Associate
 Department of Neurology
 Bowman Gray School of Medicine
 Winston-Salem, North Carolina

1978-1981
 Instructor
 Department of Neurology
 Bowman Gray School of Medicine
 Winston-Salem, North Carolina

1981-1988
 Research Assistant Professor
 Department of Neurology
 Bowman Gray School of Medicine
 Winston-Salem, North Carolina

1988-1993
 Research Associate Professor
 Department of Public Health Sciences
 Bowman Gray School of Medicine
 Winston-Salem, North Carolina

1993-1994
 Research Professor
 Department of Public Health Sciences
 Bowman Gray School of Medicine
 Winston-Salem, North Carolina

1994-1999
 Professor
 Department of Public Health Sciences
 Bowman Gray School of Medicine
 Winston-Salem, North Carolina

1999-2011	Professor and Chair Department of Biostatistics University of Alabama at Birmingham Birmingham, AL
2011 – present	Professor Department of Biostatistics University of Alabama at Birmingham Birmingham, AL
2016 – present	Visiting Professor Polish Mother's Memorial Hospital - Research Institute Rzgowska 281/289, 93-338 Lodz, Poland

Teaching Experience:Medical School:

Biostatistics lectures in the Community Medicine (Unit IV) Course (WFU)
1990
1991
1992

Graduate School:

CLEPI 411 & 412: Research Data Management and Reporting (WFU)
Fall 1989/Spring 1990
CLEPI 407: Introduction to Statistics (WFU)
1990
1991
BST 619: Research methods and data management (UAB)
1999
2000
BST 690: Consulting as a course (UAB)
2000, 2007
BST 601 & 602: Introduction to Biostatistics (UAB)
2000-2001, 2001-2002
BST 611 & 612: Intermediate Biostatistics (UAB)
2004-2005, 2005-2006, 2006-2007, 2008-2009
SOPH 601-602: Public Health Integrated Core
2003-2004, 2007-2008
SPH 600 & 602: Core MPH Curriculum
2001-2002
BST 600: Introduction to biostatistics 2006, 2007, 2008, 2009, 2010, 2011
SPH 695: Integrated experience (MPH final course)
2000, 2001, 2002, 2005
BST 704: Design and Conduct of Clinical Trials
2002, 2003, 2005, 2007, 2009

American Heart Association Trainee Programs

Faculty, AHA 14-day Course on Cardiovascular Epidemiology and Prevention, Tahoe, CA
August 1995 to August 2017

International Society of Cardiovascular Disease Epidemiology and Prevention

Faculty, 14-day Course on Cardiovascular Epidemiology and Prevention

2010 Hyderabad, India
2011 St. George's, Grenada
2012 Capetown, South Africa
2013 Seoul, South Korea
2014 Coorg, India
2015 Nadi, Fiji
2016 St. George's Grenada
2017 Kuala Lumpur, Malaysia

Research Experience/Major Grants Funded:Previous

1977-1981	Co-Investigator Community Hospital-Based Stroke Programs NINCDS
1978-1989	Principal Investigator Biostatistics and Data Management Core Cerebrovascular Research Center NINCDS/NINDS
1978-1982	Principal Investigator Factors Influencing Long-Term Prognosis of TIAs Cerebrovascular Research Center NINCDS
1983-1989	Principal Investigator Prospective Evaluation of TIA as a Risk Factor Cerebrovascular Research Center NINDS
1991-1993	Co-Principal Investigator Southeastern Consortium on Racial Differences in Stroke (SECORDS) NINDS
1986-1992	Co-Investigator Postmenopausal Estrogen/Progestin Invention (PEPI) Study NHLBI
1991-1993	Principal Investigator, Coordinating Center Prospective Randomized Evaluation of the Vascular Effects of Norvasc Trial (PREVENT)

Pfizer Pharmaceutical

1985-1999	Co-Investigator Atherosclerosis Risk in Communities (ARIC) NHLB
1985-1999	Co-Investigator Asymptomatic Carotid Artery Stenosis (ACAS) Study NINDS
1991-1999	Principal Investigator, Coordinating Center Insulin Resistance Atherosclerosis Study (IRAS) NHLBI
1993-1999	Co-Investigator Detection of Microemboli in Strokes Study NINDS
1996-1999	Principal Investigator Otolaryngology Clinical Trials Cooperative Group NINCD
2001-2006	Principal Investigator, Coordinating Center Secondary Prevention of Small Subcortical Strokes (CREST) NINDS
2008-2012	Director: Biostatistics, Epidemiology, and Research Design (BERD) UAB Center for Clinical and Translational Science (CTSA-CCTS) NCRR

Current

R01 NS41588 (Howard)	9/1/2001 – 11/30/2022	2.6 Calendar
NIH/NINDS	\$98,000,000	
<u>Etiology of Geographic and Racial Differences in Stroke (REGARDS)</u>		
The major goals of this project are to provide national data on stroke incidence, case fatality, prevalence of cerebrovascular risk factors and lifestyle choices and assess geographic and racial variations in these.		
U01 NS080165 (Howard)	3/15/14 – 2/28/21	2.4 calendar
NIH/NINDS	\$ 4,000,000	
CREST-2 Statistical and Data Coordinating Center – (SDCC)		
CREST-2 is a pair of randomized trials to assess potential stroke reduction: 1) carotid endarterectomy plus aggressive medical management versus medical management alone, and 2) carotid stenting plus aggressive medical management versus medical management alone. Each trial will have approximately 1,240 patients randomized and followed for up to 4 years for any stroke during a 44-day peri-procedural period plus ipsilateral stroke over a follow-up period extending 4 years. The study will be performed in approximately 120 clinical centers in the US and Canada.		

R01 NS38384 (Brott)	1/1/2008 – 12/31/2015	1.8 Calendar
NIH/NINDS	\$510,794	
<u>Carotid Revascularization Endarterectomy versus Stenting Trial (CREST)</u>		
CREST is a randomized clinical trial of cerebrovascular symptomatic patients with high-grade stenosis randomized to carotid endarterectomy (CEA) and carotid angioplasty with stenting (CAS). Primary endpoints are any stroke, MI or death in the 30-day peri-procedural period, or ipsilateral stroke in the post-30 day period. The unit at UAB is the statistical coordinating center for the trial.		
2P60 AR048095 (Redden)	9/1/2008 - 8/31/2013	.6 Calendar
NIH/NIAMS	\$664,382	
<u>Methodology Core for the Multidisciplinary Clinical Research Center</u>		
This Core is responsible for the design and analysis of 4 novel research projects in rheumatoid arthritis and musculoskeletal diseases. The methodology core is also responsible for the methods development and publication.		
R01 NS075047 (Roth)	7/1/2011 – 6/30/2016	.96 calendar
John Hopkins University/NIH/NINDS		\$ 2,401,228
Caregiving and Health Care Utilization After Stroke Among Medicare Beneficiaries		
The major goals of this project are to examine racial differences in care seeking after an adjudicated stroke event. Care utilization will be examined in Medicare.		
R01 NR012726 (Wang)	7/1/2011 – 6/30/2016	.48 calendar
NINR	\$ 389,044	
Risk Factors for Sepsis in the Community		
Sepsis, a condition of enormous public health importance, has two-fold regional variation in mortality in the US, with the highest cluster in the Southeastern US. This proposed study will advance sepsis science by identifying individual and community-level factors amenable to risk reduction, potentially leading to strategies to prevent sepsis and reduce its high mortality. Objectives include: (1) identifying individuals, family, community and societal/system healthcare factors associated with sepsis attack rate and case fatality, and (2) determining their mediating effects on regional sepsis variations		
Muntner	1/23/14 – 2/27/15	.6 calendar
AMGEN, Inc.	\$ 916,092	
Cardiovascular Disease, Prevention, Treatment, and Outcomes		
R01 HL117323 (Muntner)	7/15/13 – 6/30/16	.6 calendar
NIH/NHLBI	\$ 260,976	
Incorporation of a Hypertension Working Group into the Jackson Heart Stu		

PROFESSIONAL INTERESTS:

Research interests and research in progress: Clinical trials methodology, cardiovascular and cerebrovascular epidemiology

PROFESSIONAL MEMBERSHIPS:

1974-Present	North Carolina Heart Association
1975-1981	Operations Research Societies of America
1980-2000	North Carolina Society of Neuroscience
1981-Present	American Statistical Association
1984-Present	Society for Clinical Trials
1984-Present	Biometric Society (ENAR)
1985-1986	American Marketing Association Board of Directors, Triad Chapter
1987-Present	Stroke Council, American Heart Association
1990-Present	Epidemiology Council, American Heart Association

ADVISORY BOARDS (recent)

2017 – Present	NIAMS: DSMB for PH (1-34) and Pelvic Fracture Healing: a Randomized Trial.
2010 – Present	Section Editor (Population Science), <i>Stroke</i>
2017 – Present	Statistical Editor, <i>Lancet Neurology</i>
2014 – 2016	Member, Board on the Health of Select Populations, Institute of Medicine
2014 – 2016	Member, Medical Follow-up Agency (MUFA) Advisory Committee, Institute of Medicine
2007 – Present	NHLBI. Hispanic Study, Observational Studies Monitoring Board (Chair)
2011 – Present	NIDDK. The Environmental Determinants of Diabetes in the Young (TEDDY), Data and Safety Monitoring Board (Chair 2016-present)
2015 – Present	NHLBI DSMB: Individualized Comparative Effectiveness of Models Optimizing Patient Safety and Resident Education (ICOMPARE)
2014 – Present	NIDCD DSMB : Acute Video-oculography for Vertigo in Emergency Rooms for Rapid Triage (AVERT) Study
2006 – Present	Executive Committee, Aspirin to Reduce Risk of Initial Vascular Events (ARRIVE) Study, Bayer HealthCare.
2013 – 2016	Member, Data Safety Monitoring Board. A randomized, double-blind, placebo-controlled, multi-center trial to evaluate the safety and efficacy of eculizumab in patients with relapsing neuromyelitis optica (NMO). Alexion.
2007 – Present	NHLBI. Vest prevention of early sudden death trial (VEST) and Prediction of ICD Therapies Study (PREDICTS). Data and Safety Monitoring Board.
2010 – 2016	NINDS. PARTNERS Study, Data and Safety Monitoring Committee.
2012 – Present	NINDS. CRISP Study, Data and Safety Monitoring Committee.
2014 – 2016	NHLBI. Data and Safety Monitoring Board. Trial of Post-Operative Low Molecular Weight Heparin Bridging Therapy versus Placebo Bridging Therapy for Patients Who Are at High Risk for Arterial Thromboembolism (PERIOP 2)\
2003 – 2009	Morehouse School of Medicine: Scientific Advisory Board, Stroke Prevention/Interention Research Program
2001 – 2004	Leadership Committee, Council on Cardiovascular Epidemiology and Prevention, American Heart Association
2006 – 2010	Prevention Advisory Board, National Stroke Association

2004 – 2010	Veteran's Administration, DSMB, The Home INR Study (THINRS)
2005 – 2012	Neurobiological Technologies, Inc. Steering Committee, NTI-ASP-0502: Study of Acute Viprinex™ for Emergency Stroke, and NIT-ASP-0503: ASP-II (Ancrod in Stroke Program-II)
2007 – 2010	Boehringer Ingelheim. Flibanserin Data and Monitoring Committee
2004 – 2007	NHLBI, Data and Safety Monitoring Board, Omega-3 Fish Oil Studies
2005 – 2010	CDC, National Forum for the Prevention of Heart Disease and Stroke, Policy Research Advisory Committee
2003 – 2006	NINDS, Data and Safety Monitoring Board, Phase I trials.
2004 – 2009	American Heart Association, Burgher Grant Program RFP Development and Monitoring Board
2012 – 2014	NHLBI. Phosphodiesterase Type 5 Inhibition with Tadalafil Changes Outcomes in Heart Failure (PITCH-HF) Data and Safety Monitoring Board (member).

Recent Honors and Appointments (recent)

1. Ernest Everett Just Award in Medical and Public Health Research on African American Health and Quality of Life. College of Charleston and Medical University of South Carolina, October 2015.
2. Milbank Lecture Series on Public Health in the 21st Century. Yale University. December 2015.
3. Lowell Reed Lecture, Applied Health Statistics Section of the American Public Health Association. New Orleans, LA. November 16, 2014
4. Daniel C. Gainey Lectureship in Stroke and Related Diseases at the Mayo Clinic, September 8-10, 2013, Rochester, MN
5. Ancel Keys Lecture. *Adventures (and misadventures) in efforts to understand disparities in stroke mortality*. American Heart Association, Los Angeles, November 6, 2012.
6. Presidential Medal, University Alabama at Birmingham (annual award for top researcher for the University), 2011.
7. Robert M. Hearin Distinguished Lecture. *Seeking the causes of racial and geographic disparities in stroke disparity*. University of Mississippi Medical Center, September 22, 2011.
8. Member of the faculty for the World Heart Association International 10-day Course in Cardiovascular Epidemiology and Prevention (Hyderabad India 2009, Grenada West Indies 2011, Capetown South Africa, 2012, Seoul Korea, 2013; Coorg India 2014; Nadi Fiji 2015)
9. Member of the faculty for the American Heart Association 10-Day Course in Cardiovascular Epidemiology and Prevention (Tahoe City, CA, 1995 – 2015)
10. Keynote speaker. Stroke Society of Australasia. Melbourne, December 2010.
11. Plenary Presentation. American Academy of Neurology. *Traditional Risk Factors Play a Minor Role in the Excess Stroke Incidence in African Americans*. Honolulu, April 2011
12. William Feinberg Memorial Lecture. *Seeking the Causes of Excess Risk in African Americans*. University of Arizona, Tuscon, May 19-20, 2011.
13. Public Health Grand Rounds. University of Texas School of Public Health, Houston, April 19-20, 2011.
14. Grand Rounds. Eastern Virginia School of Medicine. Norfolk, VA. January 23-24, 2011.
15. Keynote Presentation. Sixth International Congress on Vascular Dementia, Barcelona, Spain. November 18-21, 2009.
16. Member of the faculty for the World Heart Association International 10-day Course in Cardiovascular Epidemiology and Prevention (Hyderabad India 2009, Grenada West Indies 2011)
17. Grand Rounds. Eastern Virginia School of Medicine. Norfolk, VA. January 23-24, 2011.
18. Keynote Presentation. Sixth International Congress on Vascular Dementia, Barcelona, Spain. November 18-21, 2009.

BIBLIOGRAPHY:

CHAPTERS IN BOOKS:

1. McGraw CP, Howard G. Effects of barbiturates on intracranial pressure and the amount of mannitol required to control the intracranial pressure. In: Shulman K, Marmarou A, Miller JD, Becker DP, Hochwald GM, Brock M, eds. Intracranial pressure IV. New York: Springer-Verlag 1980:633-635.
2. McGraw CP, Howard G. Factors influencing survival and quality of survival in patients treated for elevated intracranial pressure. In: Shulman K, Marmarou A, Miller JD, Becker DP, Hochwald GM, Brock M, eds. Intracranial pressure IV. New York: Springer Verlag 1980:54-55.
3. Harpold GJ, Ford CS, Howard G, Toole JF. Prognosis in TIA: the Bowman Gray experience. In: D'Addato M, Stella A, Pedrini L, eds. Ateroma della carotide e ischemia cerebrale reversibile. Bologna: Editrice Compositori 1985:13-18.
4. Harpold GJ, Ford CS, Howard G, Toole JF. Results and treatment of TIA: the Bowman Gray experience. In: D'Addato M, Stella A, Pedrini L, eds. Ateroma della carotide e ischemia cerebrale reversibile. Bologna: Editrice Compositori 1985:169-178.
5. Howard G. The manager as an analyst. Chapter 4, In: Glenn JR Jr, Ethics in decision making. New York: John Wiley and Sons 1985.
6. Yatsu F, Howard G, Walker MD, Becker C, Coull B, Feibel J, McLeroy KF, Toole JF. The community hospital-based stroke programs: North Carolina, Oregon, and New York. In: Cerebrovascular Diseases 1985.
7. Haisty WK Jr, Pope JE, Thomas KK, Howard G, Koch MA, Edmonds JH. Multivariate Q-wave criteria for inferior myocardial infarction. In: Bailey JJ, ed. Computerized interpretation of the electrocardiogram XI: proceedings of the 1986 Engineering Foundation Conference, Sheraton Hotel, Santa Barbara, CA: April 7-10, 1986. New York: Engineering Foundation 1986;51-55.
8. Assimios DG, Boyce WH, Lively M, Weidner N, Lewis JC, Howard G, Furr E, Sorrell M, McCullough DL, Bullock BC, Palmer TE. Porcine urologic models including jejunoileal bypass. In: Tumbleson ME, ed. Swine in biomedical research, vol. 1. New York: Plenum Press 1986:399-424.
9. Tell GS, Howard G, Evans GW, Smith ML, McKinney WM, Toole JF. Cigarette smoking and extracranial carotid atherosclerosis. In: Diana J, ed. Tobacco smoking and atherosclerosis: pathogenesis and cellular mechanisms. New York: Plenum Press 1990:39-49.
10. Coull BM, Beamer NB, Clark WM, Howard G. Acute phase response in atherothrombotic stroke. In: Moskowitz MA, Caplan LR, eds. Cerebrovascular Disease, Chapter 10. Newton, MA: Butterworth-Heinemann 1995:111-122.
11. Burke GL, Howard G. Ethnic differences in cerebral atherosclerosis. Stroke in Blacks, Basel, Karger, 1998.

12. Howard G. County-specific estimation from the Behavioral Risk Factor Surveillance System (BRFSS) with application to physical inactivity and cigarette smoking in North Carolina. Houston SL, Lengerich EJ. 1998 North Carolina Cardiovascular Disease Data Summit: Findings and Recommendations for Surveillance and Evaluation. Cardiovascular Health Data Unit, Division of Community Health, North Carolina Department of Health and Human Services, December 1998.
13. Howard G. Incidence of stroke. Office of Civil Rights Symposium: Eliminating Racial and Ethnic Health Disparities. Atlanta, November 6-7, 2001.
14. 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.
15. Howard G, Howard VJ. Stroke incidence, mortality and prevalence. In: Gorelick PB and Alter M., eds. *Stroke Prevention*. Parthenon Publishing, 2002.
16. 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*. 5th ed. Philadelphia: Elsevier; 2011.
17. 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.
18. 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*. 4th ed. Harcourt Health Sciences Company, 2004.
19. Glasser SP, Howard G. It's all about uncertainty. In Glasser SP. *Essentials of clinical research*. Springer Science 2008.

JOURNAL ARTICLES:

1. McHenry LC Jr, Merory J, Bass E, Stump DA, Williams R, Witcofski R, Howard G, Toole JF. Xenon-133 inhalation method for regional cerebral blood flow measurements: normal values and test-retest results. *Stroke* 1978;9:396-399.
2. McGraw CP, Crowell GF, Howard G. Effect of aminophylline on the cerebral infarction in the mongolian gerbil. *Stroke* 1978;9:477-479.
3. Toole JF, Yuson CP, Janeway R, Johnston F, Davis C, Cordell AR, Howard G. Transient ischemic attacks: a prospective study of 225 patients. *Neurol* 1978;28:746-753.
4. McGraw CP, Alexander E Jr, Howard G. Effect of dose and dose schedule on the response of intracranial pressure to mannitol. *Surg Neurol* 1978;10:127-130.
5. Allen LG, Howard G, Smith JB, McCubbin JA, Weaver RL. Infant heart rate response to

- trigeminal airstream stimulation: determination of normal and deviant values. *Pediatr Res* 1979;13:184-187.
6. Appolone C, Romeis J, Gibson P, McLean W, Howard G. An epilepsy workshop for professionals. *Epilepsia* 1979;20:127-132.
 7. McGraw C, Wagoner R, Buonanno F, Howard G. Effects of hyperbaric oxygen on cerebral infarction. *Acta Neurol Scand* 1979;60(suppl 72)470-471.
 8. Ueda K, Howard G, Toole JF. Transient ischemic attacks (TIAs) and cerebral infarction (CI): a comparison of predisposing factors. *J Chron Dis* 1980;33:13-19.
 9. Howard G, Griffith DW, Stump DA, Hinshelwood L. A mobile device for the measuring regional cerebral circulation. *Comput Applications Med Care* 1980;6:159-164.
 10. Weaver RG Jr, Howard G, McKinney WM, Ball MR, Jones AM, Toole JF. Comparison of Doppler ultrasonography with arteriography of the carotid artery bifurcation. *Stroke* 1980;11:402-404.
 11. Spudis EV, Fullerton W, Fernandez H, Green P, Tatum T, Howard G. Somatosensory central latencies and disc discrimination in multiple sclerosis. *Clin Electronencephalogr* 1980;11:48-56.
 12. Toole JF, Howard G. Physician attitudes: management of asymptomatic carotid artery murmur and transient ischemic attacks. *Arch Neur* 1981;38:443-446.
 13. Stump DA, McHenry LC Jr, Biller J, Howard G, Toole JF. Reduction of posterior circulation by provocative arm exercise in subclavian steal syndrome: demonstration by noninvasive rCBF measurement. *Trans ANA* 1981;106:361-363.
 14. Biller J, Laster DW, Howard G, Toole JF, McHenry LC Jr. Cranial computerized tomography in carotid artery transient ischemic attacks. *Eur Neurol* 1982;21:98-101.
 15. Jones AM, Biller J, Cowley AR, Howard G, McKinney WM, Toole JF. Extracranial carotid artery arteriosclerosis: diagnosis with continuous-wave Doppler and real-time ultrasound studies. *Arch Neur* 1982;39:393-394.
 16. McHenry LC Jr, Stump DA, Howard G, Novack T, Bivins DH, Nelson AD. Comparison of the effects of intravenous papaverine hydrochloride and oral pavabid HP capsules on regional cerebral blood flow in normal individuals. *J Cereb Blood Flow Metab* 1983;3:442-447.
 17. McGraw CP, Howard G. Effect of mannitol on increased intracranial pressure. *Neurosurgery* 1983;13:269-271
 18. Toole JF, Howard G, Miller HS. Cardiac risk factors in TIA patients. *Trans Amer Clin and Climitol Assoc* 1984;96:154-157.
 19. Howard G, Till JS, Toole JF, Matthews C, Truscott BL. Factors influencing return to work following cerebral infarction. *JAMA* 1985;253:226-232.
 20. Ford CS, Crouse JR III, Howard G, Toole JF, Ball MR, Frye J. The role of plasma lipids in carotid bifurcation atherosclerosis. *Ann Neurol* 1985;17:301-303.

21. Vinten-Johansen J, Edgerton TA, Howe HR, Gayheart PA, Mills SA, Howard G, Cordell AR: Immediate functional recovery and avoidance of reperfusion injury with surgical revascularization of short-term coronary occlusion. *Circulation* 1985;72:431-439.
22. Johnston WE, Prough DS, Royster RL, Howard G, Johnson JC, McLees BD: Pulmonary artery wedge pressure may fail to reflect left ventricular end-diastolic pressure in dogs with oleic acid-induced pulmonary edema. *Crit Care Med* 1985;13:487-491.
23. Johnston WE, Alford PT, Prough DS, Howard G, Royster RL: Cardiopulmonary effects of hypertonic saline in canine oleic acid-induced pulmonary edema. *Crit Care Med* 1985;13:814-817.
24. Prough DS, Johnson JC, Stullken EH, Stump DA, Poole GV Jr, Howard G. Effects on cerebral hemodynamics of resuscitation from endotoxic shock with hypertonic saline versus lactated Ringer's solution. *Crit Care Med* 1985;13:1040-1044.
25. Howard G, Walker MD, Becker C, Coull B, Feibel J, McLeroy K, Toole JF, Yatsu F. Community hospital-based stroke programs: North Carolina, Oregon, and New York. III. Factors influencing survival after stroke: proportional hazards analysis of 4219 patients. *Stroke* 1986;17:294-299.
26. Johnston WE, Royster RL, Choplin RH, Howard G, Mills SA, Tucker WY. Pulmonary artery catheter migration during cardiac surgery. *Anesthesiology* 1986;64:258-262.
27. Dignan MB, Steekler A, Block GD, Howard G, Cosby M. Prevalence of health-risk behavior among seventh grade students in North Carolina. *South Med J* 1986;79:295-298,302.
28. Dignan M, Block G, Steekler A, Howard G, Cosby M. Locus of control and smokeless tobacco use among adolescents. *Adolescence* 1986;21:377-381.
29. Grice SC, Morrell RC, Balestrieri FJ, Stump DA, Howard G. Intravenous regional anesthesia: evaluation and prevention of leakage under the tourniquet. *Anesthesiology* 1986;65:316-320.
30. Smith HP, Kelly DL Jr, McWhorter JM, Armstrong D, Johnson R, Transou C, Howard G. Comparison of mannitol regimens in patients with severe head injury undergoing intracranial monitoring. *J Neurosurg* 1986;65:820-824.
31. Dignan MB, Howard G, Toole JF, Becker C, McLeroy KR. Evaluation of the North Carolina Stroke Care Program. *Stroke* 1986;17:382-386.
32. Prough DS, Johnson JC, Stump DA, Stullken EH, Poole GV Jr, Howard G. Effects of hypertonic saline versus lactated Ringer's solution on cerebral oxygen transport during resuscitation from hemorrhagic shock. *J Neurosurg* 1986;64:627-632.
33. Yatsu FM, Becker C, McLeroy KR, Coull B, Feibel J, Howard G, Toole JF, Walker MD. Community hospital-based stroke programs: North Carolina, Oregon, and New York. I. Goals, objectives and data collection procedures. *Stroke* 1986;17:276-284.

34. Becker C, Howard G, McLeroy KR, Yatsu FM, Toole JF, Coull B, Feibel J, Walker MD. Community hospital-based stroke programs: North Carolina, Oregon, and New York. II. Description of study population. *Stroke* 1986;17:285-293.
35. Prough DS, Stump DA, Roy RC, Gravlee GP, Williams T, Mills SA, Hinshelwood L, Howard G. The response of cerebral blood flow to changes in carbon dioxide tension during hypothermic cardiopulmonary bypass. *Anesthesiology* 1986;64:576-581.
36. 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.
37. Johnston WE, Balestrieri F, Plonk G, D'Souza V, Howard G. The influence of periaortic collateral vessels on the intraoperative hemodynamic effects of acute aortic occlusion in patients with aorta-occlusive disease or abdominal aortic aneurysm. *Anesthesiology* 1987;66:386-389.
38. Butterworth JF IV, Austin JC, Johnson MD, Berrizbeitia LD, Dance GR, Howard G, Cohn LW. Effect of total spinal anesthesia on arterial and venous responses to dopamine and dobutamine. *Anesth Analg* 1987;66:209-214.
39. Johnston WE, Royster RL, Vinten-Johansen JS, Gravlee GP, Howard G, Mills SA, Tucker WY. Influence of Balloon Inflation and Deflation on location of pulmonary artery catheter tip. *Anesthesiology* 1987;67:110-115.
40. Poole, GV Jr, Prough DS, Johnson JC, Stullken EH, Stump DA, Howard G. Effects of resuscitation from hemorrhagic shock on cerebral hemodynamics in the presence of an intracranial mass. *J Trauma* 1987;27:18-23.
41. Howard G, Toole JF, Frye-Pierson JF, Hinshelwood LC. Factors influencing the survival of 451 transient ischemic attack patients. *Stroke* 1987;18:552-557.
42. Monu J, Bohrer SP, Howard G. Some upper cervical spine norms. *Spine* 1987;12:515-519.
43. Keeler DK, Johnston WE, Vinten-Johansen J, Royster RL, Howard G. Pulmonary artery wedge pressure measurement during experimental pulmonary hypertension: comparison of techniques in relation to catheter-induced hemorrhage. *J Cardiothorac Anesth* 1987;1:305-308.
44. Gravlee GP, Brauer SD, Roy RC, Howard G, Kiger J, Scott C, Royster RL, Pauca AL. Predicting the pharmacodynamics of heparin: a clinical evaluation of the Hepcon System 4. *J Cardiothorac Anesth* 1987;1:379-387.
45. Crouse JR, Toole JF, McKinney WM, Dignan MB, Howard G, Kahl FR, McMahan MR, Harpold GH. Risk factors for extracranial carotid artery atherosclerosis. *Stroke* 1987;18:990-996.
46. Oles KS, Penry JK, Cole DLW, Howard G. The use of acetazolamide as an adjunct to carbamazepine in refractory partial seizures. *Epilepsia* 1989;30:74-78.
47. Tell GS, Howard G, McKinney WM, Toole JF. Cigarette smoking cessation and extracranial carotid atherosclerosis. *JAMA* 1989;261:1178-1180.

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