

CURRICULUM VITAE

NAME: Richard Stanley Cooper

DATE OF BIRTH: June 7, 1945

PLACE OF BIRTH: Little Rock, Arkansas

MARITAL STATUS: Married, three children

EDUCATION: University of Pennsylvania, Philadelphia, Pennsylvania, 1963-1967
University of Arkansas Medical School, Little Rock, Arkansas, 1967-1971

PROFESSIONAL TRAINING:

Internship: Medicine, Montefiore Hospital and Medical Center, Bronx, New York, 1971-1972

Residency: Medicine, Montefiore Hospital and Medical Center, Bronx, New York, 1972-1974

Fellowship I: Clinical Cardiology, Montefiore Hospital and Medical Center, Bronx, New York, 1974-1976

Fellowship II: National Institutes of Health Traineeship: Epidemiology, Nutrition, Biostatistics and Preventive Cardiology, Northwestern University Medical School, Chicago, Illinois, 1976-1978

DEGREES: Bachelor of Arts, 1967, University of Pennsylvania, Major-English
Doctor of Medicine, 1971, University of Arkansas

BOARD CERTIFICATION: Internal Medicine, 1974, Cardiovascular Diseases, 1977

HONORS AND AWARDS: Honors Award, Department of English, University of Pennsylvania, 1967
Seham Prize, Senior Essay, University of Pennsylvania, 1967
Faculty Gold Key, University of Arkansas, School of Medicine, 1971
MERIT Award, National Heart Lung and Blood Institute, September, 1998
Scholar, Donald W. Reynolds Cardiovascular Clinical Research Center, 1999-2003
Bernard Pimstone Memorial Lecture, 2006, University of Cape Town, Republic of South Africa
Robert Wood Johnson Scholar, Health Policy, 2005-2008
Alvan R. Feinstein Memorial Award in Clinical Epidemiology, American College of Physicians, 2007
John C. Cassel Memorial Lecture, Society for Epidemiologic Research, 2007
Visiting Chair in Biomedicine, Foundation *BBVA*, Valencia, Spain, 2008-9
National Advisory Council, National Human Genome Research Institute, National Institutes of Health, 2009-2011
Senior Scientist of the Year Award, Stritch Loyola Medical School, 2011
Achievement Award for the Year, Institute of Medicine, Chicago, 2015

ACADEMIC ACHIEVEMENTS:

Assistant Professor, Northwestern University Medical School, Department of Medicine and Community Health and Preventive Medicine, 1978-1983
Director, Masters Program in Public Health Northwestern University Medical School, Department of Medicine and Community Health and Preventive Medicine, 1978-1983
Associate Professor, Department of Medicine, University of Illinois College of Medicine, 1985-1989
Anthony B. Traub Professor and Chairman, Department of Epidemiology and Preventive Medicine, Loyola University Stritch School of Medicine, 1989-
Associate Director for Cancer Prevention and Control, Loyola University Cancer Center, 1995-2000
Adjunct Professor, Department of Preventive Medicine, Northwestern University Medical School, 1995-
Adjunct Professor, University of Ibadan College of Medicine, Ibadan, Nigeria, 2007-

Visiting Professor, University of the West Indies, Kingston, Jamaica, 2010 - 2013

ATHLETICS: Freshman Crew, Varsity Crew, University of Pennsylvania, 1964-1966

SOCIETY, ORGANIZATION AFFILIATIONS AND HONORS:

American Heart Association, Fellow, Council on Epidemiology and Prevention
American Heart Association, Fellow, Council for High Blood Pressure Research
American College of Cardiology, Fellow
American Public Health Association
American Epidemiological Society
American Federation of Clinical Research
Association of Teachers of Preventive Medicine
International Society and Federation of Cardiology, Council on Epidemiology
American College of Epidemiology
Physicians National Housestaff Association, Member National Council, 1973-1975
NIH Review Panel, Trials of Mild Hypertension, 1988
NIH ad hoc Study Section Member, Epidemiology, 1989-1992
Executive Committee, Foster McGaw Memorial Hospital, 1989-2000
International Society on Hypertension in Blacks, Member, Board of Directors, 1992-1997
NIH, Contract Review Committee, "Health ABC" Study, 1995
NIH Study Section Member, Epidemiology and Disease Control-1, 1993-1997; 1998-2005
NHLBI Working Group on Coronary Heart Disease in Blacks, 1992-94
Executive Faculty Committee, Loyola Stritch School of Medicine, 1994-
Chairman, Data Safety and Monitoring Board, Bogalusa Heart Study, NHLBI, 1998-2000
Member, Adult Treatment Panel, National Cholesterol Education Program, NHLBI, 1999-2001
Chair, Ancillary Study Committee, Multi-Ethnic Study of Atherosclerosis, 1999-2001
Chair, NIH Study Section, Epidemiology and Disease Control-1, 2000-2002
Member, World Health Organization/International Society of Hypertension, Hypertension
Guideline Development Group, 2001
Member, American College of Cardiology Task Force on Prevention, 2001
Member, CDC/AHA Task for on Racial and Ethnic Disparities in Cardiovascular Services,
2000-2001
National Research Council Panel, Race, Ethnicity and Health in Later Life, 2001
Member, Institute of Medicine Panel on Preventable Mortality, 2004
Honorary Professor, Tropical Metabolism Research Institute, University of the West Indies,
Mona, Jamaica, 2001-
Editor-in-Chief, *Ethnicity & Disease*, 1989-1995
Editorial Board, *Ethnicity & Disease*, 1995-2000
Editorial Board, *Hypertension*, 2001-2004
Editorial Board, *Epidemiologic Reviews*, 2003
Course Director, CDC Cardiovascular Health Promotion in Sub-Saharan Africa, 2003-2009
Editorial Board, *American Journal of Hypertension*, 2006-2012
Chair, Evaluation Panel, NHLBI, Resequencing and Genotyping Program, 2006-2008
Editorial Board, *The Application of Clinical Genetics*, 2008-2010
Scientific Steering Committee, Jackson Heart Study, 2008-2009
Editorial Board, *Obesity Insights*, 2008
External Scientific Advisory Committee, Institute for Personalized Medicine, Mt. Sinai School of
Medicine, 2009-
Editorial Board, *Journal of Health Disparities*, 2010 -2012
Visiting Professor in Public Health, University of the West Indies, Mona, Jamaica. 2009-2011
Advisory Panel, H3 Africa, Wellcome Trust, London, UK. 2011-2012
Editorial Board, *PeerJ*, 2012 –
Working Group Member, *Future of Genomic Research at the NHLBI*, 2014

MAJOR RESEARCH INTERESTS:

1. Epidemiology of cardiovascular diseases, with emphasis on black populations
2. Hypertension in blacks
3. Genetic epidemiology of complex diseases
4. Sickle cell disease

TEACHING EXPERIENCE:

Lecturing to medical students, Northwestern University Medical School, 1977-1983, and University of Illinois College of Medicine, 1979-1989
Course director for Preventive Medicine, Loyola Medicine School, 1989-1995.
Thesis supervision and teaching of public health graduate students, Northwestern University Medical School, 1977-1983
Clinical supervision of house officers, Northwestern Memorial Hospital, 1978-1983; Cook County Hospital, 1979-1989; Loyola University Foster G. McGaw Hospital, 1989 to present.
Course Director, Preventive Medicine, Loyola University Medical School, 1989-1996.
Co-course Organizer, Introduction to the Practice of Medicine, Loyola University Medical School, 1996-1999.
Co-Course Director, Epidemiology I/II. Masters in Clinical Research Methods, Loyola University Medical School, 2006-2009

LICENSE EXAMINATIONS: Arkansas, New York, Illinois

PRESENT ACTIVITIES: Anthony B. Traub Professor and Chairman, Department of Public Health Sciences, Loyola University Stritch School of Medicine.

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Current h-Index: 101 (March, 2015)

PUBLISHED PAPERS:

1. Cooper R. Blacks and hypertension: A theoretical exploration. *Urban Health* 1975;4:9-12.
2. Cooper R. Chronic ventricular ectopic activity and sudden death. *Euro J Cardiol* 1978;7.5-6:457-464.
3. Cooper R, Stamler J, Dyer A, Garside D. The decline in mortality from coronary heart disease, U.S.A., 1968-1975. *J Chron Dis* 1978;31:709-720.
4. Soltero I, Cooper R, Liu K, Stamler J, Garside D. Trends in mortality from cerebrovascular disease in the United States, 1960 to 1975. *Stroke* 1978;9:545-558.
5. Liu K, Cooper R, McKeever P, Byington R, Soltero I, Stamler R, Gosch E, Stevens E, Stamler J. Assessment of the association between habitual salt intake and high blood pressure: Methodological problems. *Am J Epidemiol* 1979;110:219-226.
6. Stamler R, Stamler J, Dyer A, Garside R, Cooper R, Berkson D, Lindberg HA, Stevens F, Schoenberger JA, Shekelle S, Paul O, Leeper M, Garside D, Tokich T, Hoeksema R. Asymptomatic hyperglycemia and cardiovascular diseases in three Chicago epidemiologic studies. *Diabetes Care* 1979;2:131-141.
7. Liu K, Cooper R, Soltero I, Stamler J. Variability in 24-hour urine sodium excretion in children. *Hypertension* 1979;1:631-636.
8. Liu K, Dyer A, Cooper R, Stamler J, Stamler R. Can overnight urine replace 24-hour urine collection to assess salt intake? *Hypertension* 1979;1:529-536.
9. Cooper R, Soltero I, Liu K, Berkson DM, Levinson S, Stamler J. The association between urinary sodium excretion and blood pressure in children. *Circulation* 1980;62:97-104.
10. Soltero I, Tsong Y, Cooper R, Stamler J, Stamler R, Garside D. A survey of patterns of nonpharmacologic care for hypertensive patients, including recommendations for their children.

- Hypertension 1980;2:215-220.
11. Soltero I, Cooper R. Improved hypertension control and the decline in cardiovascular mortality. *Comp Therapy* 1980;6:60-64.
 12. Cooper R, VanHorn L. Nutrition and the Coronary Patient, in: Fardy PS, Bennett JL, Reitz NL, Williams MA, Eds: Cardiac Rehabilitation, Mosby and Company, St. Louis, 1980, pp 174-186.
 13. Cooper R, Tsong Y, Hoeksema R, Liu K. Is the recent decline in coronary heart disease mortality in the United States attributable to lower rates of influenza and pneumonia? *Prev Med* 1980;9:559-568.
 14. Cooper R. Rising death rates in the Soviet Union: The impact of coronary heart disease. *New Engl J Med* 1981;304:1259-1265.
 15. Cooper R, Steinhauer MJ, Miller WJ, David R. Racism, society and disease: An exploration of the social and biological mechanisms of differential mortality. *Int J Health Serv* 1981;11:389-414.
 16. Trevisan M, Ostrow D, Cooper R, Liu K, Sparks S, Stamler J. Methodological assessment of assays for red cell sodium concentration and sodium-dependent lithium efflux. *Clin Chim Acta* 1981;116:319-329.
 17. Cooper R, Steinhauer M, Schatzkin A, Miller W. Improved mortality among U.S. blacks, 1968-1978. *Int J Health Serv* 1981;11:511-522.
 18. Ostrow D, Trevisan M, Okonek A, Gibbons R, Cooper R, Davis JM. Sodium dependent membrane processes in major affective disorders. In: Hanin I, Usdin G, Eds: Biological Markers in Psychiatry and Neurology, Pergamon Press, Oxford, 1981, pp 153-168.
 19. Allen A, Stamler J, Stamler R, Gosch F, Cooper R, Trevisan M, Persky V. Observational and interventional experiences on dietary sodium intake and blood pressure: Kare MR, Fregly MJ, Eds: *The Role of Salt in Cardiovascular Hypertension*, Academic Press, New York, 1981, pp 63-68.
 20. Trevisan M, Cooper R, Ostrow D, Miller W, Sparks S, Leonas Y, Allen A, Steinhauer M, Stamler J. Dietary sodium, erythrocyte sodium concentration, sodium-stimulated lithium efflux and blood pressure. *Clinical Science* 1981;61:29s-32s.
 21. Miller WJ, Cooper R. Rising lung cancer death rates among black men: The importance of occupation and social class. *J Nat Med Assoc* 1982;74:253-258.
 22. Cooper R, Soltero I, Stamler J, Mojonnier L, Hall Y, Moss D, Berkson DM, Tokich T. Smoking cessation in the Chicago Coronary Prevention Evaluation Program. *J. National Med Assoc* 1982;74:349-355.
 23. Caamano AG, Cooper R, Cedres L, Diaz-Barriero LA, Chaves R. A blood pressure survey in Nuevo Laredo, Mexico. *Publ Health Reports* 1982;97:116-121.
 24. Cooper R, Schatzkin A. Recent trends in coronary risk factors in the USSR. *Amer J Public Health* 1982;72:431-440.
 25. Cooper R, Schatzkin A. The pattern of mass disease in the USSR. *Int J Health Serv* 1982;12:459-480.
 26. Liu K, Stamler J, Stamler R, Cooper R, Shekelle RB, Schoenberger JA, Berkson D, Lindberg HA, Marquardt J, Stevens E, Tokich T. Methodological problems in characterizing an individual's plasma glucose level. *J Chron Dis* 1982;35:475-485.
 27. Cooper R. The effect of hypertension control in changing racial patterns of mortality. *Urban Health* 1982;11:38-43.
 28. Cooper R. Smoking in the Soviet Union. *Brit Med J* 1982;285:549-551.

29. Cooper RS, Goldberg RB, Trevisan M, Tsong Y, Liu K, Stamler J, Rubenstein A, Scanu AM. The selective lipid-lowering effect of vegetarianism on low density lipoproteins in a cross-over experiment. *Atherosclerosis* 1982;44:293-305.
30. Cooper R, Liu K, Miller W, Trevisan M, Stamler J. Urinary sodium excretion and blood pressure in children: Absence of a reproducible association. *Hypertension* 1983;5:135-139.
31. Cooper R, LeGrady D, Nanas S, Trevisan M, Mansour M, Hstand P, Ostrow D, Stamler J. Increased sodium-lithium countertransport in college students with elevated blood pressure. *JAMA* 1983;249-1030-1034.
32. Cooper R. Is the United States entering a period of retrogression in public health? *J Nat Med Assoc* 1983;75:741-744.
33. Trevisan M, Ostrow D, Cooper R, Liu K, Sparks S, Okonek A, Stevens E, Marquardt J, Stamler J. Abnormal red blood cell ion transport and hypertension. The People's Gas Company Study. *Hypertension* 1983;5:363-367.
34. Trevisan M, Tsong Y, Stamler J, Tokich T, Mojonier L, Hall Y, Cooper R, Moss D. Nervous tension and serum cholesterol: Findings from the Chicago Coronary Prevention Evaluation Program. *J Human Stress* 1983;9:12-16.
35. Cooper R, Cohen R, Amiry A. Is the period of rapidly declining adult mortality in the United States coming to an end? *Am J Public Health* 1983;73:1091-1093.
36. Cooper RS. Epidemiologic features of recent trends in coronary heart disease in the Soviet Union. *JACC* 1983;2:557-564.
37. Cooper R, Miller K, Trevisan M, Sempos C, Larbi E, Ueshima H, Ostrow D, Stamler J, Spalvins A, Canessa M. Family history of hypertension and red cell cation transport in high school students. *J Hypertension* 1983;1:145-152.
38. Ostrow D, Gibbons R, Okonek A, Cooper R, Davis JM. Biological markers and antidepressant response. *J Clin Psych* 1983;44(Sec2):10-13.
39. Trevisan M, Cooper R, Ostrow D, Sempos C, Sparks S, Stamler J. Red cell cation transport: Racial differences between black and white school children. *J Hypertension* 1983;1:245-249.
40. Larbi E, Cooper R, Stamler J. Alcohol and hypertension. *Arch Int Med* 1983;143:28-29.
41. Cooper R, Goldberg R, Trevisan M, Rubenstein A, Stamler J. Life style patterns of Seventh-Day Adventist adolescents and cardiovascular risk factors. *Western J Med* 1984;140:471-477.
42. Cooper R, Sempos C. Recent mortality patterns associated with economic development in Eastern Europe. *J Nat Med Assoc* 1984;76:163-166.
43. Schatzkin A, Cooper R, Schor L, Green L. Antiracism and the level of health services: The need for empirical investigation of a sociomedical hypothesis. *J Nat Med Assoc* 1984;76:381-386.
44. Ueshima H, Cooper R, Stamler J, Yu C, Tatata C. Age specific mortality trends in the USA, 1960 to 1980: Divergent age-sex-color patterns. *J Chron Dis* 1984;37:425-439.
45. Cooper R, Liu K, Stamler J, Schoenberger JA, Shekelle RB, Collette P, Shekelle S. Prevalence of diabetes and associated cardiovascular risk factors in blacks and whites. *Amer Heart J* 1984;108:827-831.
46. Cooper RS. A note on the biological concept of race and its application in epidemiological research. *Amer Heart J* 1984;108:715-723.

47. Caldwell J, Cooper R, Eaker E, Edozien J, Harburg E, et al. Working Group on Socioeconomic and Sociocultural influences. Summary. *Amer Heart J* 1984;108:706-710.
48. Cooper R, Schatzkin A. Rising death rates among Polish men. *Int J Health Serv* 1984;14:289-302.
49. Larbi ED, Stamler J, Cooper R, Dyer A, Paul O. Population attributable risk of hypertension from heavy alcohol consumption. *Pub Health Rep* 1984;99:316-319.
50. Sempos C, Cooper R, Trevisan M, Stamler J. Red cell sodium-lithium countertransport and family history of hypertension. *Clin Exp Hypertension* 1984;A6:1379-1393.
51. Trevisan M, Cooper R, Ostrow D, Sempos C, Stamler J. Sex and race differences in sodium-lithium countertransport and red cell sodium concentration. *Amer J Epidemiol* 1984;120:537-541.
52. Cooper R, Van Horn L, Liu K, Trevisan M, Nanas S, Stamler J. The effect of dietary sodium reduction on red blood cell sodium concentration and sodium-lithium countertransport. *Hypertension* 1984;6:731-735.
53. Cooper R, Van Horn L, Liu K, Trevisan M, Nanas S, Stamler J. A randomized trial on the effect of decreased dietary sodium intake on blood pressure in adolescents. *J Hypertension* 1984;2:361-366.
54. Cooper R, Trevisan M, Ostrow D, Sempos C, Stamler J. Blood pressure and sodium-lithium countertransport: Findings in population-based surveys. *J Hypertension* 1984;2:467-471.
55. Cooper R, Simmons BE. Cigarette smoking and ill health among black Americans. *NY State J Med* 1985;85:344-349.
56. Cooper R. Smoking and health in the Soviet Union and Eastern Europe. *NY State J Med* 1985;85:413-415.
57. Cooper R, Sempos C, Ghali J, Ferlinz J. Lipoproteins and angiographic coronary artery disease in blacks. *Amer Heart J* 1985;110:1006-11.
58. Cooper R. Race, Disease and Health. T. Rothwell, D. Phillips, Eds. Health, Race and Ethnicity. Croom Helm, Ltd. London, pp 21-79, 1986.
59. Cooper R, Simmons B, Castaner A, Franklin C, Ferlinz J. Survival rates and pre-hospital delay during myocardial infarction among blacks. *Amer J Cardiol* 1986;57:208-211.
60. Cooper R, David R. The biological concept of race and its application in epidemiology and public health. *J Health Politics Policy Law* 1986;11:97-116.
61. Thomas I, Gupta S, Sempos C, Cooper R. Elevated serum lipids in Indian physicians living in the U.S. compared to U.S.-born physicians. *Atherosclerosis* 1986;61:99-106, 1986.
62. Sempos C, Cooper R. Dietary calcium and blood pressure in NHANES I and NHANES II. *Hypertension* 1986;8:1067-1074.
63. Cooper R, Shamsi N, Katz S. Increased intracellular calcium and sodium in hypertensive patients compared to normotensives. *Hypertension* 1987;9:224-229.
64. Simmons BE, Castaner A, Santhanam V, Ghali J, Silverman NA, Goldfaden D, Levitsky S, Ferlinz J, Cooper R. Outcome of coronary artery bypass surgery in black patients. *Am J Cardiol* 1987;59:547-551.
65. Thomas I, Mathew J, Kumar VP, Cooper R, Ferlinz J. Electrocardiographic changes in catastrophic abdominal illness mimicking acute myocardial infarction. *Am J Cardiol* 1987;59:1224-6.
66. Cooper R, Simmons B. Controlling risk for coronary artery disease among blacks. *Primary Cardiology*

- 1987;July:52-57.
67. Roig E, Castaner A, Simmons B, Patel R, Cooper R. In-hospital mortality rates from acute myocardial infarction by race in U.S. hospitals: Findings from the National Hospital Discharge Survey. *Circulation* 1987;76:280-288.
 68. Cooper R. Has the increase in death rates from cardiovascular disease in the Soviet Union leveled off? *Int J Health Services* 1987;17:517-521.
 69. McDonald A, Trevisan M, Cooper R, Stamler R, Gosch F, Ostrow D, Stamler J. Epidemiological studies on sodium transport and hypertension. Proceedings of an NIH Workshop on Cation Transport and Natriuretic Factors. *Hypertension* 1987;10(Suppl I):I-42-I-47.
 70. Cooper RS, Shamsi N. Ionized serum calcium in black hypertensives. *J Clin Hypertension* 1987;3:514-519.
 71. Santhanam V, Yalamanchi V, Cooper R, Simmons B, Ferlinz J. Pulsed Doppler ultrasound in the evaluation of pulmonary hypertension. *Amer J Noninvasive Cardiol* 1987;1:284-289.
 72. Cooper R, Ford E, Simmons B, Katz S, Patel R. Sex differentials in high-density lipoprotein-cholesterol in urban blacks. *Am J Epidemiol* 1988;127:753-761.
 73. Castaner A, Simmons BE, Mar M, Cooper R. Poor prognosis after hospital discharge for myocardial infarction among blacks. *Ann Int Med* 1988;109:33-35.
 74. Simmons BE, Santhanam V, Sachdev N, Rao, KRP, Castaner A, Cooper R. Cardiac abnormalities in adult patients with sickle cell disease; Findings with two-dimensional echo and Doppler ultrasound. *Arch Int Med* 1988;148:1526-8.
 75. Ghali JK, Kadakia S, Cooper R, Ngo L, Ferlinz J. Precipitating factors leading to decompensation of heart failure. *Arch Int Med* 1988;148:2013-6.
 76. Simmons BE, Castaner A, Campo A, Ferlinz J, Mar M, Cooper R. Coronary artery disease in blacks of lower socioeconomic status: Angiographic findings from the Cook County Hospital Heart Disease Registry. *Am Heart J* 1988;116:90-97.
 77. Sempos C, Cooper R, Kovar MG, McMillen M. Divergence of the recent U.S. trends in coronary mortality for the four major sex-race groups. *Am J Public Health* 1988;78:1422-1427.
 78. Cooper R, Lipowski J, Ford E, Shamsi N, Feinberg H, Le Breton G. Increased membrane-bound calcium in platelets of hypertensive patients. *Hypertension* 1989;13:139-144.
 79. Cooper R, Aina O, Chaco L, Achilihu AG, Shamsi N, Ford E. Red cell sodium and potassium in hypertension among blacks. *J Nat Med Assoc* 1989;81:365-370.
 80. Ford E, Cooper R, Castaner A, Simmons B, Mar M. Coronary arteriography and coronary bypass surgery among whites and blacks relative to hospital-based incidence rates for coronary artery disease: Findings from the National Hospital Discharge Survey. *Am J Public Health* 1989;79:437-440.
 81. Cooper R, Castaner A, Campo A, Islam N, Simmons B. Severity of coronary artery disease among blacks with acute myocardial infarction. *Am J Cardiol* 1989;63:788-791.
 82. Hoffman A, Cooper R, Lacey L, Mullner R. Cigarette smoking and attitudes toward quitting among black patients. *J Nat Med Assoc* 1989;81:415-420.
 83. Cooper R, Simmons B. Hypertension as a cause of lower than expected death rates from coronary artery disease among blacks. *Clin Cardiol* 1989;12:IV9-IV12.
 84. Cooper R, Simmons BE, Castaner A, Santhanam V, Mar M. Left ventricular hypertrophy is associated

- with increased mortality independent of ventricular function and the number of coronary arteries severely narrowed. *Am J Cardiol* 1990;65:441-445.
85. Simmons BE, Castaner A, Mar M, Islam N, Cooper R. Survival in black patients with angiographically defined coronary artery disease. *Am Heart J* 1990;119:513-519.
 86. Ghali J, Cooper R, Ford E. Trends in hospitalization rates for heart failure in the United States, 1973-1986; evidence for increasing population prevalence. *Arch Int Med* 1990;150:769-773.
 87. Ford ES, Cooper RS, Simmons B, Castaner A. Serum lipids, lipoproteins, and apolipoproteins in black patients with angiographically defined coronary artery disease. *J Clin Epidemiol* 1990;43:425-432.
 88. Ford ES, Harel Y, Heath G, Cooper RS, Caspersen CJ. Test characteristics of self-reported hypertension among the Hispanic population: Findings from the Hispanic Health and Nutrition Examination Survey. *J Clin Epidemiol* 1990;43:159-165.
 89. The SOLVD Investigators. Studies of left ventricular dysfunction (SOLVD) - rationale, design and methods: two trials that evaluate the effect of enalapril in patients with reduced ejection fraction. *Am J Cardiol* 1990;66:315-322.
 90. Kannel WB, et al. Efficacy and tolerability of Lovastatin in a six-month study: analysis by gender, age and hypertensive status. *Am J Cardiol* 1990;66:1B-10B.
 91. Cooper R, Sempos C, Hsieh SC, Kovar MG. Slowdown in the decline of stroke mortality in the United States, 1978-1986. *Stroke* 1990;21:1274-1279.
 92. Cooper R, Aina Y, Chaco L, Shamsi N, Achilihu A, Islam N, Feinberg H. Cell cations and blood pressure in U.S. whites, U.S. blacks, and West African blacks. *J Human Hypertens* 1990;4:477-484.
 93. Cooper R, Ghali J, Simmons BE, Castaner A. Elevated pulmonary artery pressure. An independent predictor of mortality: A marker of diastolic dysfunction? *Chest* 1991;99:112-120.
 94. Ghali JK, Kadakia S, Cooper RS, Liao Y. Bedside diagnosis of preserved versus impaired left ventricular systolic function in heart failure. *Am J Cardiol* 1991;67:1002-1006.
 95. Cooper R, Ghali J. "Coronary Heart Disease: Black-White Differences." In: E. Saunders, Ed. Cardiovascular Diseases in Blacks, Cardiovascular Clinics, F. A. Davis, Co., Phila., PA, 1991, 205-227.
 96. Ghali JK, Kadakia S, Cooper RS, Liao Y. The impact of left ventricular hypertrophy on ventricular arrhythmias in the absence of coronary artery disease. *JACC* 1991;17:1277-82.
 97. Cooper R, Pacold I, Ford E. Age-related differences in case-fatality rates among diabetics with myocardial infarction: Findings from the National Hospital Discharge Survey. *Diabetes Care*. 1991;14:903-908.
 98. Constanzo-Nordin MR, Liao Y, Grusk BB, O'Sullivan EJ, Cooper RS, Johnson MR, Siebold KM, Sullivan HJ, Heroux, AH, Robinson JA, Pifarre R. Oversizing of donor hearts: Beneficial or detrimental? *J Heart Transplantation* 1991;10:717-30.
 99. Ogunlesi A, Osotimehin B, Abbiyessuku F, Kadiri S, Akinkugbe O, Liao Y, Cooper R. Blood pressure and educational level among factory workers in Ibadan, Nigeria. *J Human Hypertens* 1991;5:375-380.
 100. Ford ES, Cooper R. Risk factors for hypertension in a national cohort study. *Hypertension* 1991;18:598-606.
 101. Cooper RS. Celebrate diversity - Or should we? *Ethnicity Dis* 1991;1:3-7.
 102. Cooper RS. Hypertension in blacks - A puzzle waiting to be solved. *Ethnicity Dis* 1991;1:111-113.

103. Ghali JK, Kadakia S, Bhatt A, Cooper RS, Liao Y. Survival of heart failure patients with preserved versus impaired systolic function: The impact of blood pressure. *Am Heart J* 1992;123:993-997.
104. SOLVD Investigators. Effect of enalapril on mortality and the development of heart failure in asymptomatic patients with reduced left ventricular ejection fraction. *N Engl J Med* 1992;327:685-691.
105. Liao Y, Cooper RS, Ghali JK, Szocka A. Are survival rates with coronary artery disease different for black women compared to black men? *JAMA* 1992;268:1867-1871.
106. Cooper R, Ford E. Comparability of risk factors for coronary heart disease among blacks and whites in the NHANES-I Epidemiologic Follow-up Study. *Ann Epidemiol* 1992;2:637-645.
107. Ghali JK, Liao Y, Simmons B, Castaner A, Cao G, Cooper RS. The prognostic role of left ventricular hypertrophy in patients with or without coronary artery disease. *Ann Int Med* 1992;117:831-836.
108. Cooper RS, Borke JL. "Intracellular Ions and Hypertension in Blacks". In: JCS Fray and J Douglas, Eds, *Pathophysiology of Hypertension in Blacks*, Oxford, New York, pp 181-213, 1993.
109. Ghali JK, Liao Y, Cooper RS, Cao G. Changes in pulmonary hemodynamics with aging in a predominantly hypertensive population. *Am J Cardiol* 1992;70:637-370.
110. Ghali JK, Cooper RS, Kowatly I, Liao Y. Delay between onset of chest pain and arrival to the coronary care unit among minority and disadvantaged patients. *J Nat Med Assoc* 1993;85:180-184.
111. Cooper RS. Health and the social status of blacks in the United States. *Ann Epidemiol* 1993;3:137-144.
112. Liao Y, Cooper RS, Ghali JK, Lansky D, Cao G, Lee J. Sex differences in the impact of coexistent diabetes on survival in patients with coronary heart disease. *Diabetes Care* 1993;16:708-713.
113. Douglas JG, Cooper RS. Ethnic differences in cellular ions and transport. *Am J Kidney Dis*. 1993;21:46-52.
114. Cooper R. Use of race in public health surveillance: Perspective of a health scientist. *MMWR* 1993;Vol 42/No.RR-10:11,12.
115. Gunnar RM, Anderson TO, Cooper RS, Epstein AB, Lezzoni LI. Access to Cardiovascular Care: Human systems resources for cardiovascular care. *JACC* 1992;19:1460-4.
116. Cooper RS. Ethnicity and disease prevention. *Human Biology* 1993;5:387-398
117. Lipton RB, Liao Y, Cao G, Cooper RS, McGee D. Determinants of incident non-insulin-dependent diabetes mellitus among blacks and whites in a national sample: The NHANES-I Epidemiologic Follow-up Study. *Am J Epidemiol* 1993;138:826-839.
118. Ansell D, Whitman S, Lipton R, Cooper R. Race, income and survival from breast cancer at two public hospitals. *Cancer* 1993;72:2974-2978.
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PAPERS IN PRESS:

1. Joshi PK et al. Directional dominance on stature and cognition in diverse human populations. *Nature*.
2. Ehret GB et al. Association of 67 loci in 201,529 individuals highlight the role of the endothelial cell in blood pressure regulation. *Nature*.
3. Ogedegbe G, Plange-Rhule J, Gyamfi J, Cooper R. *Task Shifting and Blood Pressure Control in Ghana: A Cluster-Randomized Trial – Study Design and Methodology*. GCAD Proceedings
4. Kaufman JS, Dinela R, Cooper RS. *Nature versus Nurture in the Explanations for Racial/Ethnic Health Disparities: Parsing Disparities in the Era of Genome-Wide Association Studies*. In: (Suzuki K & von Vacano D, Eds) "Reconsidering Race: Global and Comparative Studies in Race and Genomics", Oxford University Press.
5. Tong L, Shoham D, Cooper RS. A co-evolution model for dynamic social network and behavior. *Open J Statistics*
6. Redon J, Gil-Guillen V, Orozco-Beltran D, Fernandez SP, Navarro-Perez J, Pallares V, Durazo-Arvizu R, Cooper R, Hermenegildo H, Rosado L. Electronic health recording-based whole population study in cardiovascular diseases: The Escarval (Estudio CARdiometabolico VALencia) Prevention Study. *BMC Medicine*

PAPERS SUBMITTED FOR PUBLICATION:

1. Shetty PB, Tang H, Levitzsky YS, Tayo B, Morrison AC, Kardia SLR, Hanis CL, Arnett DK, Hunt SC, Boerwinkle E, Rao DC, Cooper RS, Risch N, Zhu X. Identification of admixture regions associated with risk of apparent treatment-resistant hypertension in African-Americans. *PLoS Genetics*
2. Roberts M, McCrory M, Bovet P, Forrester TE, Lambert EV, Plange-Rhule J, Durazo-Arvizu RA, Shoham DA, Schoeller DA, Cao G, Cooper RS, Luke A, Dugas LR. A longitudinal analysis of dietary variety and reporting error in adults from the Modeling the Epidemiologic Transition Study (METS). *Physiol Behav.*

3. Tong L, Luke A, Plange-Rhule J, Dugas LR, Bovet P, Forrester TE, Lambert EV, Durazo-Arvizu RA, Cao G, Cooper RS, Shoham DA. Factors to define socioeconomic status and the associations with body mass index and blood pressure. *Am J Epidemiol*

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EXTRA-MURAL GRANT SUPPORT: April 2015

5R01HL53353 (PI) 09/30/1995-04/30/2014 1.2 calendar
NIH/NHLBI \$427,695

Genetics of Hypertension in Blacks

The goal is to combine high-throughput genotyping with a sophisticated epidemiologic design to examine potential gene-environment interactions for known candidate genes.

5R01HL086718 (Zhu) 08/15/2007-06/30/2012 1.2 calendar
NIH/NHLBI \$43,418

Fine Mapping of Hypertension Genes Detected by Admixture Mapping in the FBPP

This application aims to develop a novel paradigm for studying complex diseases in diverse populations, in which a multi-stage design and a combination of analytic methods enable efficient positional cloning of genetic variants that influence the risk of hypertension.

R03 TW008695 (PI) 07/01/2011 – 06/30/2014 0.36 calendar
NIH/Fogarty International Center \$52,391

Variation in Severity of Sickle Cell Disease among the Yorubas

In this project we propose to build on two decades of collaborative research in the West African diaspora to link investigators in Nigeria and Jamaica with institutions in North America to build research capacity in SCD and advance our understanding of the genetic influences on severity. We further propose to enhance the clinical SCD activities at the collaborating institution in Nigeria, provide training for our Nigerian collaborator, and create a model for outcomes and management research in the region.

1R01DK090360-01 (Durazo) 12/01/2010-11/30/2015 0.24 calendar
NIH/NIDDK \$473,367

Determinants and Consequences of Low Vitamin D in Populations of African Descent

The proposed project will examine associations of circulating levels of vitamin D and parathyroid hormone with adiposity, weight change and cardiovascular disease risk factors in five populations of African origin living across a wide range of latitudes and lifestyles in order to determine need for vitamin D supplementation.

TW009140-01 (Tayo-Ogedegbe) 07/01/2011-06/30/2016 0.6 calendar
NIH/Fogarty International Center \$12,541

NYU/UG Cardiovascular Research Training Institute Program

The Institute is a collaborative training program between New York University and the University of Ghana. The long-term goal is to produce a sustainable network of individuals who are exceedingly well trained in various aspects of cardiovascular research, and poised to assume leadership roles in academic cardiovascular medicine in Ghana and Sub-Saharan Africa.

1U01 HL114198 (Ogedegbe) 05/04/2012-03/31/2016 0.6 calendar
NIH/NHLBI \$11,285

Task Shifting and Blood Pressure Control in Ghana

This collaborative project will evaluate the effectiveness of the WHO blood pressure management protocol developed by community health nurses. A cluster randomized trial will be used to evaluate the effectiveness of this program in comparison to standard treatment procedures conducted under the national health insurance scheme.

U54 HG006939 (Adu) 07/01/2012-06/30/2017 0.6 calendar

NIH \$56,797

H3Africa Kidney Disease Research Network

This Research Network vision is as an asymmetric partnership in which African scientists set the research priorities and allocate funds while the U.S. partnering institutions provide scientific and training resources to African biomedical professionals to generate novel genetic findings to help stem the rising tide of kidney disease, worldwide.

R01DK075787 (Hirschhorn) 12/01/2012-11/30/2017 0.36 calendar

NIH \$21,180

Candidate Studies of Obesity Guided by Whole Genome Association Data

To advance knowledge of the genetics and biology of obesity, we aim to identify rare or uncommon functional variants, especially coding variants, associated with measures of obesity in the GIANT consortium.

Doris Duke Charitable Foundation (Tayo) 9/1/2013-8/30/2016 0.6 calendar

\$ 450,000

Risk Stratification for Clinical Severity of Sickle Cell Disease in Nigeria and Assessment of Efficacy and Safety During Treatment with Hydroxyurea.

The purpose of this study is to provide comprehensive evidence on short-term (ie, primarily hematologic) outcomes and safety in order to provide the necessary empirical data base to encourage widespread adoption of a low fixed-dose regimen of HU in Africa. Further, we propose to train local clinical "champions" to be change-agents who can spread the message on the value of HU through university hospitals, sickle cell organizations and government agencies in West Africa.