

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

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|--|--|---------|----------------|
| NAME Wendy S. Post, MD, MS | POSITION TITLE Associate Professor of Medicine and Epidemiology | | |
| eRA COMMONS USER NAME (credential, e.g., agency login) wpost1 | | | |
| EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.) | | | |
| INSTITUTION AND LOCATION | DEGREE | YEAR(s) | FIELD OF STUDY |
| Harvard College, Cambridge, MA | B.A. | 1986 | Biology |
| Columbia College of Physicians and Surgeons, NY, NY | M.D. | 1990 | Medicine |
| Harvard School of Public Health, Boston, MA | M.S | 1994 | Epidemiology |

A. Positions and Honors.

Positions and Employment:

- 6/90-6/93 Intern and Resident in Internal Medicine, Beth Israel Hospital, Harvard Medical School, Boston, MA.
- 7/93-6/94 Research Fellow in Cardiovascular Epidemiology, Framingham Heart Study, Framingham, MA.
- 7/94-6/97 Fellow in Cardiovascular Disease, Johns Hopkins Hospital, Baltimore, MD.
- 7/97-10/04 Assistant Professor of Medicine, Division of Cardiology, Johns Hopkins University, Baltimore, MD.
- 11/04- Associate Professor of Medicine, Division of Cardiology, Johns Hopkins University, Baltimore, MD.
- 2/05- Associate Professor of Epidemiology, Johns Hopkins University, Bloomberg School of Public Health.
- 7/08- Co-chair, Adult Protocol Review Committee, Hopkins Clinical Research Unit, ICTR (CTSA).
- 2/09- Vice-chair, AHA Epidemiology and Prevention Council, Publications Committee.

Honors:

- Paul Beeson Physician Faculty Scholars in Aging Research Award Recipient – July 2003- June 2008.
- Reynolds Associate, Donald W. Reynolds Cardiovascular Research Center, Johns Hopkins- July 2003- present.
- Associate Editor, American Journal of Epidemiology- 2005- present.
- Member, Scientific Committee of the Sarnoff Cardiovascular Research Foundation- July 2007- June 2010.
- Member, CICS NIH Study Section Review Panel Member July 2008- present.

B. Selected peer-reviewed publications. (30 selected from 58 original research publications)

1. **Post WS**, Larson MG, Levy D. Impact of left ventricular structure on the incidence of hypertension: The Framingham Heart Study. Circulation 1994;90:179-85.
2. **Post WS**, Larson MG, Levy D. Hemodynamic predictors of incident hypertension: The Framingham Heart Study. Hypertension 1994;24:585-90.
3. **Post WS**, Larson MG, Levy D. Heritability of left ventricular mass. Hypertension 1997;30:1025-8.
4. **Post WS**, Goldschmidt-Clermont PJ, Wilhide CC, Heldman AW, Sussman MS, Ouyang P, Milliken EE, Issa J-P J. Methylation of the estrogen receptor gene is related to aging and atherosclerosis in the cardiovascular system. Cardiovascular Research 1999;43:985-91.
5. **Post WS**, Blumenthal RS, Weiss JL, Levine DL, Thiemann DR, Gerstenblith G, Hill MN. Spot urinary albumin-creatinine ratio predicts left ventricular hypertrophy in young hypertensive African-American men. Am J Hypertension 2000;13:1168-72.
6. **Post WS**, Hill MN, Dennison CR, Weiss JL, Gerstenblith G, Blumenthal RS. High prevalence of target organ damage in young, African American inner-city men with hypertension. J Clin Hypertens 2003;5:24-30.
7. Hill MN, Han HR, Dennison CR, Kim MT, Roary MC, Blumenthal RS, Bone LR, Levine DM, **Post WS**. Hypertension care and control in underserved urban African American men: behavioral and physiologic outcomes at 36 months. Am J Hypertens 2003;16:906-13.
8. Nasir K, Michos ED, Rumberger JA, Braunstein JB, **Post WS**, Budoff MJ, Blumenthal RS. Coronary artery calcification and family history of premature coronary heart disease: sibling history is more strongly associated than parental history. Circulation 2004;110(15):2150-6.

9. Sorkin J, **Post W**, Pollin TI, O'Connell J, Mitchell BD, Shuldiner AR. Exploring the genetics of longevity in the Old Order Amish. Mech Ageing Dev 2005; 126(2):347- 50.
10. Benton JL, Becker DM, Blumenthal RS, Yanek LS, Moy TF, **Post W**. Predictors of LDL particle size in a high risk African American population. Am J Cardiol 2005; 95(11):1320-3.
11. Dries DL, Victor R, Rame EJ, Cooper RS, Wu X, Leonard D, Ho S-I, Wu Q, **Post W**, Drazner MH. Corin gene minor allele defined by 2 missense mutations is common in African-Americans and associated with higher blood pressure and increased risk for prevalent hypertension. Circulation 2005;112(16):2403-10.
12. McClelland RL, Chung H, Detrano D, **Post W**, Kronmal RA. Distribution of coronary artery calcium by race, gender, and age: results from the Multi-Ethnic Study of Atherosclerosis (MESA). Circulation 2006;113(1):30-7.
13. Arking DE, Pfeufer A, **Post W**, Kao WHL, Newton-Cheh C, Ikeda M, West K, Kashuk C, Akyol M, Perz S, Jalilzadeh S, Illig T, Geiger C, Guo C-Y, Larson M, Wichmann HE, Marban E, O'Donnell CJ, Hirschhorn JN, Kaab S, Spooner PM, Meitinger T, Chakravarti A. A common genetic variant in the NOS1 regulator NOS1AP modulates cardiac repolarization. Nature Genetics 2006;38(6):644-51.
14. Heckbert SR, **Post W**, Pearson GDN, Arnett DK, Gomes AS, Jerosch-Herold M, Hundley G, Lima JA, Bluemke DA. Traditional cardiovascular risk factors in relation to left ventricular mass, volume, and systolic function by cardiac magnetic resonance imaging: The Multi-Ethnic Study of Atherosclerosis. J Am Coll Cardiol 2006; 48(11):2285-92.
15. Benton JL, Ding J, Tsai MY, Shea S, Rotter JI, Burke GL, **Post W**. Associations between two common polymorphisms in the ABCA1 gene and subclinical atherosclerosis: Multi-Ethnic Study of Atherosclerosis (MESA). Atherosclerosis 2007; 193(2):352-60.
16. **Post W**, Bielak LF, Ryan KA, Cheng Y-C, Shen H, Rumberger JA, Sheedy PF, Shuldiner AR, Peyser PA, Mitchell BD. Determinants of Coronary Artery and Aortic Calcification in the Old Order Amish. Circulation 2007;115(6):717-24.
17. Greenland P, Bonow RO, Brundage BH, Budoff MJ, Eisenberg MJ, Grundy SM, Lauer MS, **Post WS**, Raggi P, Redberg RF, Rodgers GP, Shaw LJ, Taylor AJ, Weintraub WS. ACCF/AHA 2007 Clinical expert consensus document on coronary artery calcium scoring by computed tomography in global risk assessment and in evaluation of patients with chest pain. Circulation 2007;115(3): 402-26.
18. Dennison CR, **Post WS**, Kim MT, Bone LR, Cohen D, Blumenthal RS, Rame JE, Roary MC, Levine DM, Hill MN. Underserved urban African-American men: Hypertension trial outcomes and mortality during 5 years. Am J Hypertens 2007; 20(2):164- 71.
19. **Post W**, Shen H, Damcott C, Arking DE, Kao WH, Sack PA, Ryan KA, Chakravarti A, Mitchell BD, Shuldiner AR. Associations between genetic variants in the NOS1AP (CAPON) gene and cardiac repolarization in the old order Amish. Hum Hered. 2007;64(4):214-9.
20. Tsai MY, Johnson C, Kao WHL, Sharrett RA, Arends VL, Kronmal R, Jenny NS, Jacobs DR, Arnett D, O'Leary D, **Post W**. Cholesteryl Ester Transfer Protein genetic polymorphisms, HDL Cholesterol, and subclinical cardiovascular disease in the Multi-Ethnic Study of Atherosclerosis. Atherosclerosis 2008;200:359-67.
21. Stein JH, Korcarz CE, Hurst RT, Lonn E, Kendall CB, Mohler ER, Najjar S, Rembold CM, **Post WS**. Use of carotid ultrasound to identify subclinical vascular disease and evaluate cardiovascular disease risk: A consensus statement from the American Society of Echocardiography Carotid Intima-Media Thickness Task Force. J Am Soc Echocardiogr 2008;21(2):93-111.
22. Melamed ML, Michos ED, **Post W**, Astor B. 25-hydroxyvitamin D levels and the risk of mortality in the general population. Arch Intern Med. 2008;168(15):1629-37.
23. Rampersaud E, Bielak LF, Parsa A, Shen H, **Post W**, Ryan KA, Donnelly P, Rumberger JA, Sheedy PF 2nd, Peyser PA, Shuldiner AR, Mitchell BD. The Association of Coronary Artery Calcification and Carotid Artery Intima-Media Thickness With Distinct, Traditional Coronary Artery Disease Risk Factors in Asymptomatic Adults. Am J Epidemiol 2008;168:1016-1023.
24. Pollin TI, Damcott CM, Shen H, Sandra, Ott SH, Shelton J, Horenstein RB, **Post W**, McLenithan JC, Bielak LF, Peyser PA, Mitchell BD, Miller M, O'Connell JR, Alan R. Shuldiner AR. A null mutation in human APOC3 confers a favorable plasma lipid profile and apparent cardioprotection. Science 2008; 322(5908):1702-5.

25. Michos ED, Streeten EA, Ryan KA, Rampersaud E, Peyser PA, Bielak LF, Shuldiner AR, Mitchell BD, **Post W**. Serum 25-hydroxyvitamin D levels are not associated with subclinical vascular disease or C-reactive protein in the Old Order Amish. Calcified Tissue International 2009. Jan 16. epub ahead of print.
26. Tsai MY, Li N, Sharrett AR, Shea S, Jacobs DR, Tracy R, Arnett D, Arends V, **Post W**. Associations of Genetic Variants in the ATP-Binding Cassette A1 and Cholesteryl Ester Transfer Protein and Differences in Lipoprotein Subclasses in the Multi-Ethnic Study of Atherosclerosis. Clin Chem 2009. Jan 16. epub ahead of print.
27. Arking DE, Khera A, Xing C, Kao WH, **Post W**, Boerwinkle E, Chakravarti A. Multiple independent genetic factors at NOS1AP modulate the QT interval in a multi-ethnic population. PLoS ONE 2009;4(1):e4333. 2009; Jan 30. epub ahead of print.
28. Kao WHL*, Arking DE*, **Post W**, Rea TD, Sotoodehnia N, Prineas RJ, Bishe B, Doan BQ, Boerwinkle E, Psaty BM, Tomaselli G, Coresh J, Siscovick DS, Márban E, Spooner PM, Burke GL, Chakravarti A. Genetic Variations in NOS1AP Predict Sudden Cardiac Death in the General U.S. White Population. Circulation 2009; Feb 9. epub ahead of print.
29. Michos ED, Rice KM, Szklo M, Burke GL, Siscovick DS, Tracy RP, Barr RG, Nettleton JA, Greenland P, Jacobs DR, **Post W**. Factors Associated with Low Levels of Subclinical Vascular Disease in Older Adults: Multi-Ethnic Study of Atherosclerosis. Preventive Cardiology 2009. In press.
30. Gao SK, Fitzpatrick AL, Psaty B, Jiang R, **Post W**, Cutler J, Maciejewski ML. Suboptimal Nutritional Intake for Hypertension Control in Four Ethnicities. Arch Intern Med 2009. In press.

C. Research Support

Ongoing

- 1) NO1-HC-95162 Post (PI) 1/15/99- 8/14/15
NIH/NHLBI
Multi-Ethnic Study of Atherosclerosis (MESA)
Role: PI of Hopkins Field Center
This multicenter epidemiologic population-based study is evaluating the progression from subclinical atherosclerotic disease to clinical cardiovascular disease in a large multiracial group. Participants have CT scan measures of coronary calcification, carotid ultrasound for intima media thickness, radial artery tonometry, brachial artery vasoreactivity and MRI examinations.
- 2) RO1 HL095129-01 Post (PI) 9/25/08- 6/30/13
NIH/NHLBI
Subclinical Vascular Disease and Metabolic Abnormalities in MACS
Role: PI
This study will determine if there is a difference in the prevalence and progression of subclinical CVD between HIV+ and HIV- men and whether metabolic, inflammatory, immunologic and anthropomorphic markers potentially associated with HAART and/or HIV infection are associated with presence and/or progression of subclinical CVD. Studies include CT angiography of the coronary arteries, longitudinal changes in CAC and carotid IMT, blood assays and CT imaging of adiposity.
- 3)RO1 HL071259 Post (PI) 7/1/03 to 6/30/09
NIH/NHLBI
MESA Family Study
Role: PI of Hopkins Field Center
This is an ancillary study proposal to the Multi Ethnic Study of Atherosclerosis (MESA). This study includes siblings of original MESA participants who undergo the same measures of subclinical cardiovascular disease. Association studies will be performed to determine heritability and to perform genetic analyses.
- 4) Donald W. Reynolds Cardiovascular Research Center. Weiss (PI) 7/01/03- 6/30/10
Donald W. Reynolds Foundation
Sudden Cardiac Death

Role: Co-Investigator

This study is part of a program involving a comprehensive translational evaluation of sudden cardiac death. This project (Genetics of Sudden Cardiac Death) is designed to evaluate genetic polymorphisms related to the risk of sudden cardiac death in people with coronary atherosclerosis using advanced genetic methods.

5) N01-AG-3-1003 Gerstenblith (PI) 8/01/03- 7/31/10
NIH/NIA

The VALIDATE Study. The Link that Bridges Age to Atherosclerosis

Role: Co- PI

This program will characterize vascular age and atherosclerotic burden in BLSA participants and individuals with "successful" aging, i.e. those with no or minimal evidence of coronary atherosclerosis, and those with premature, clinically evident coronary artery disease. It will repeat measures of atherosclerotic burden three years later. By examining the impact of vascular age on the extent and the progression of atherosclerotic burden, it will test whether vascular age is an important determinant of the age associated increase in CVD.

6) R01 AR050026 Bathon (PI) 5/01/04 – 4/30/09
NIH/NIAMS

Inflammation and Cardiovascular Disease in Rheumatoid Arthritis

Role: Co-investigator

This is an ancillary study to MESA. The hypothesis is that patients with rheumatoid arthritis will have a greater prevalence of subclinical cardiovascular disease than the general population. MESA is the control group.

7) U01 GM074518 Post (PI) 09/23/05-08/31/10
University of Maryland/NIH

Pharmacogenomics of CVD Risk Factors

Role: PI on subcontract.

The major goal of this project is to dissect the genetic determinants of individual variation in response to medications used routinely for the treatment and prevention of cardiovascular disease (CVD). Dr. Alan Shuldiner is the PI at University of Maryland.

8) R01-HL082895-01 Girgis (PI) 03/01/06 - 02/28/11
Columbia University/NIH/NHLBI

A Clinical Trial of Aspirin and Simvastatin in Pulmonary Arterial Hypertension

Role: Co-investigator

This is a 2X2 factorial clinical trial of aspirin and simvastatin in pulmonary arterial hypertension. The goal is to study the combination of these drugs in patients with pulmonary arterial hypertension. Brachial vasoreactivity studies will be performed. This is a subcontract with Columbia University.

PAST 3 years

1) RO1HL075646 Rodriguez (PI) 04/01/04 - 3/31/08
NIH/NHLBI

Deficiency of the HDL receptor, SR-BI, in humans

Role: Co-investigator

The major objective of this study is to identify subjects with deficiency of the HDL receptor SR-BI. Subjects will be screened based on HDL>60 mg/dl and either risk factors for premature CAD or presence of CAD.

2) Paul Beeson Physician Faculty Scholars in Aging Research Program Post (PI) 7/01/03- 6/30/08
Vascular Properties and Genetics Associated with Longevity in the Amish

Role: PI

The purpose of this project is to identify vascular properties associated with longevity in an Amish cohort of probands who have lived to over 95 years and their offspring and offspring spouses using electron beam CT scanning, carotid intima media thickness, and pulse wave velocity and genetic studies.