OBJECTIVE:
The purpose of the CVD Epidemiology Training Program, a federally-funded National Research Service Award (NRSA) Institutional Research Training Grant (1 T32 HL076132-03), is to attract and train a cohort of outstanding physician scientists who will be fluent in the latest developments in cardiovascular disease and able to apply this knowledge to the conduct of new cardiovascular epidemiology and clinical cardiovascular research. Key features of the training program include completion of a Masters Degree in Clinical and Population Translational Science with a curriculum that also includes formal training in molecular biology and genetics, supplemental training in genomics, proteomics and informatics, joint mentorship with both clinical and basic science faculty, and participation in external NHLBI sponsored short courses in cardiovascular epidemiology, and the genetics of complex heart, lung, and blood disorders.

CURRENT TRAINEES:
Dr. Jennifer Anderson – appointed 7/1/2009
Current: Wake Forest University, MS, Clinical and Populational Translational Science
MD, University of Washington – Seattle, Washington, 2006
PhD, University of Washington – Seattle, Washington, 2002

Dr. Subhashish Agarwal – appointed 7/1/2009
Current: Wake Forest University, MS, Clinical and Populational Translational Science
MBBS, University of Mumbai, Mumbai, India, 1997

Dr. Peter Matthew Belford – appointed 7/1/2008
Current: Wake Forest University, MS, Clinical and Populational Translational Science
MD, Wake Forest University, 2004

Dr. Manish Jain – appointed 7/1/2008
Current: Wake Forest University, MS, Clinical and Populational Translational Science
MD, University of Texas-South Western, 2004

PAST TRAINEES:
Dr. Sidharth Shah – appointed 7/1/2007-6/30/2009
Current: Clinical Cardiology Fellow, Internal Medicine, Section on Cardiology, Wake Forest University, 2008
Current: Wake Forest University, MS, Health Services Research
Thesis: Genetic Variants in NOS1AP and the QT Interval  
MD, University of Kansas – Kansas City, 2004

Dr. Brandon Stacey – appointed 7/1/2007-6/30/2009  
Current: Clinical Cardiology Fellow, Internal Medicine, Section on Cardiology, Wake Forest University, 2008  
Current: Wake Forest University, MS, Health Services Research  
Thesis: Modification of the Effect of Glycemic Status on Aortic Distensibility by Age in the Multi-Ethnic Study of Atherosclerosis  
MD, University of South Alabama College of Medicine – Mobile, 2004

Dr. Stewart Allen– appointed 7/1/2006-6/30/2008  
Current: Clinical Cardiology Fellow, Internal Medicine, Section on Cardiology, Wake Forest University, 2007  
Wake Forest University, MS, Health Services Research, 2009  
Thesis: The Association of Selective and Nonselective Nonsteroidal Antiinflammatory Medications with Reverse Endothelial Function and Indices of Thrombosis in the Multi-Ethnic Study Of Atherosclerosis  
MD, Wake Forest University, 2001

Dr. Darryl Prime– appointed 7/1/2006-6/30/2007  
Current: Clinical Cardiology Fellow, Internal Medicine, Section on Cardiology, Wake Forest University, 2007  
MS- Health Services Research, Wake Forest University, 2008  
Thesis: The Utility of Pulse Pressure Measured by Radial Arterial Tonometry in Determining Cardiovascular Disease in Adults  
MD, University of Alabama - Birmingham, 2002

Current: Interventional Cardiology Fellow, Internal Medicine, Section on Cardiology, Wake Forest University, 2009  
MS-Health Services Research, Wake Forest University, 2007  
Thesis: Genetic Variations in the ATP-Binding Cassette Gene are Associated with Altered Levels of Markers of Systemic Inflammation  
DO, Oklahoma State University, 2001

Current: Clinical Cardiology Fellow, University of Ohio-Toledo, 2007  
Wake Forest University, MS, Health Services Research, 2007  
Thesis: Response to Postural Change in Diastolic Heart Failure: Decreased Left Thesis: Ventricular Compliance Contributes to Reductions in Stroke Volume and Cardiac Output  
MD, Michigan State University, 2001

Current: Fellow, Clinical Cardiology, University of Virginia, 2008  
Wake Forest University, MS, Health Services Research, 2007
Thesis: Predictive Value of Endothelial Dysfunction for Incident Cardiovascular Events in the CHS Cohort
MD, Yale University, 2005

Dr. Phillip Mellen - appointed 7/1/2004 – 6/30/2006
Current: Internist at the Hattiesburg Clinic’s Hypertension Center of Excellence
MS-Health Services Research, Wake Forest University, 2006
Thesis: Whole Grain Intake and Progression of Carotid Atherosclerosis in a Multi-Ethnic Cohort: The Insulin Resistance Atherosclerosis Study
MD – University of Mississippi, 2001

Dr. Susan Lakoski – appointed 7/1/2004 – 6/30/2005
Current: Assistant Professor Cardiology, University of Texas
MS-Health Services Research, Wake Forest University, 2005
Thesis: The Relationship Between Blood Pressure and C-Reactive Protein in the Multi-Ethnic Study of Atherosclerosis (MESA)
MD – University of Texas, 2000

EDUCATIONAL REQUIREMENTS OF THE CVD EPIDEMIOLOGY TRAINING PROGRAM:
Masters Degree Clinical and Population Translational Sciences, Wake Forest University
AHA’s 10 day Seminar on the Epidemiology and Prevention of Cardiovascular Disease
Jackson Laboratory’s Annual Short Course on Genetic Approaches to Complex Heart, Lung, and Blood Diseases
AHA’s Annual Conference on Cardiovascular Disease Epidemiology and Prevention in Association w/the Council on Nutrition, Physical Activity and Metabolism.
Faculty Development Program
Ethics in Science course offered through Grad school
The Collaborative IRB Training Initiative (CITI)
The Human Research Subject Protection Certification Program and HIPPA Compliance training courses.
NIH online course on responsible conduct of research.
WFU Annual Informed Consent Workshops

AWARDS AND HONORS:

Dr. Susan Lakoski, NIH Loan Repayment Award, 2004.

Dr. Kurt Daniel, NIH Loan Repayment Award, 2005.
**Dr. Susan Lakoski**,  Sandra Daugherty Award for Excellence in Cardiovascular Disease and Hypertension Epidemiology. 45th Annual Conference on Cardiovascular Disease Epidemiology and Prevention, April 2005.

**Dr. Kurt Daniel**, Travel award from GSK Research & Education Foundation for CVD to attend the New Frontiers in Genomics and Cardiovascular Disease Conference in Philadelphia, April 2005.

**Dr. Kurt Daniel**, Henry I Russek Travel Award to attend the 37th Annual Cardiovascular Symposium from the American College of Cardiology, December 2005.

**Dr. Darryl Prime**, Travel Award to attend the AHA’s 43th 10-Day Seminar on the Epidemiology and Prevention of Cardiovascular Disease, 2008

**Dr. Susan Lakoski**, Women in Cardiology Trainee Award for Excellence , American Heart Association’s Scientific Sessions 2006, November 12- November 15, 2006.

**Dr. R. Brandon Stacey**, NIH Loan Repayment Award, 2007

**Dr. Stewart Allen**, American Heart Association Spotlight Series Speaker, 2007

**Dr. P. Matthew Belford**, NIH Loan Repayment Award, 2008

**Dr. P. Matthew Belford**, Travel Award to attend the AHA’s 43th 10-Day Seminar on the Epidemiology and Prevention of Cardiovascular Disease, 2008

**Dr. Joseph Yeboah**, Finalist, Elizabeth Barrett-Connor Research Award for Young Investigators in Training, 2008


**Dr. Sidharth Shah**, A.M. Nomeir Award for Excellence in Echocardiography, July 2009.

**GRANTS:**

**Dr. Susan Lakoski, PI**, The Association Between Interleukin-1 Receptor Associated Kinases (IRAK1) Genetic Variants and IL-10 levels in the ERA Study. Funded by the Wake Forest University Center for Public Health Genomics, June 2005.
BIBLIOGRAPHY:

Journal Articles


Lakoski SG, Cushman M, Blumenthal RS, Kronmal R, Arnett D, D'Agostino RB Jr, Detrano RC, Herrington DM. Implications of C-reactive protein or coronary artery


John, JM and Herrington DM. Maintenance warfarin dose varies according to two haplotypes of the vitamin K epoxide reductase gene. Future Medicine 2006;2(1);29-32.


Yeboah J, Burke GL, Crouse JR, Herrington DM. Relationship between brachial flow-mediated dilation and carotid intima-media thickness in an elderly cohort: The


Journal Articles In Press:


Abstracts:


Lakoski SG, “The Association Between Inflammation and Hypertension.” Cardiovascular Epidemiology, Biostatistics and Behavioral Medicine Trainee Session : 45th Annual Conference on Cardiovascular Disease Epidemiology and Prevention, April 2005.


Daniel KR, Parks J, Schreiner P, Tsai M, Post W, Palmas W, Herrington D. Polymorphisms in ABCA1 are Associated with Serum Levels of IL-6 and CRP. 46th Annual Conference on Cardiovascular Disease Epidemiology and Prevention conference in March 2006.


Putney D, Matura LA, Daniel K, Thohan V, Negative Impact of Nesiritide in combination with intrpoc therapy among Patients Admitted with Acute Heart Failure. Supplement to Journal of American College of Cardiology 2007, Vol 49(9) supplement A; March 6, 2007; 1022-66.


John JM. The Determinants of Exercise Tolerance in Diastolic Heart Failure Patients, Ohio Chapter of the American College of Cardiology, 2007.


Prime D, Brumback LC, Arnett DK, Heckbert SR, Duprez DA, Jacobs DR, Herrington DM, Bluemke D, Lima JA. Relationship between increased pulse pressure measured by radial arterial tonometry or by brachial cuff, and increased left ventricular mass (LVM): The Multi-Ethnic Study of Atherosclerosis (MESA). NHLBI Cardiovascular Epidemiology, Biostatistics and Behavioral Medicine Trainee Session in conjunction with the 48th Cardiovascular Disease Epidemiology and Prevention Conference, and Nutrition, Physical Activity and Metabolism Conference. March 2008.


Abstracts Submitted:

AHA 2009: Short-Term Heart Rate Variability: An Independent Predictor of Incident Heart Failure in the Multi-Ethnic Study of Atherosclerosis (MESA) Sidharth A. Shah, Cheeling Chan, Harikrishna Tandri, Elizabeth Brown, David Herrington, Kiang Liu, Sanjiv J. Shah


**Electronic Publications:**


**Invited Commentary**


**INVITED PRESENTATIONS:**

**Dr. Susan Lakoski** “Women and Cardiovascular Disease” Wake Forest University School of Medicine Medical Student Class. August 2003.

**Dr. Susan Lakoski** “The Association Between Inflammation and Hypertension.” Wake Forest University School of Medicine Cardiology Research Conference, June 2004

**Dr. Phillip Mellen** “Cardiovascular Disease and Women” Cardiovascular pathophysiology lecture series for 2nd year medical students, Wake Forest University, August 2004

**Dr. Susan Lakoski** “Gender Differences and C-Reactive Protein.” Wake Forest University School of Medicine Cardiology Research Conference, January 2005

**Dr. Susan Lakoski** “The Association Between Inflammation and Hypertension.” Cardiovascular Epidemiology, Biostatistics and Behavioral Medicine Trainee Session, April 2005

**Dr. Phillip Mellen** “The Metabolic Syndrome, Insulin Resistance, and Coronary Atherosclerotic Progression” Cardiology Research Conference, Wake Forest University, June 2005

**Dr. Phillip Mellen** “New Pharmacogenetic Data in Hypertension” Satellite Symposium Invited Lecture, 14th Annual Scientific Meeting, Quebec Society of Hypertension,
Montreal, Quebec, Canada, January 14, 2006 (sponsored by Bristol-Meyers Squibb Canada and Sanofi-Aventis)

**Dr. Phillip Mellen** “Whole Grains and Heart Disease” Cardiology Research Conference, Wake Forest University, May 2006

**Dr. Kurt Daniel** “Predictors of Poor Epicardial Blood Flow Following PCI” Cardiology Research Conference, Wake Forest University, May 2006.

**Dr. Susan Lakoski** “Cardiovascular Risk Assessment in Women” Medicine Cardiology Research Conference, June 2006.

**Dr. Jerry John** “Response to Postural Change in Diastolic Heart Failure: Decreased Left Ventricular Compliance Contributes To Reductions in Stroke Volume and Cardiac Output” Medicine Cardiology Research Conference, June 2006.

**Dr. Susan Lakoski** Invited Speaker, AHA Special Session: Improving Cardiovascular Risk Assessment in Women. “Framingham Risk Score Low Balls Risk in Women.” Nov 2006


**Dr. Joseph Yeboah** “Relationship between Carotid IMT and Brachial Flow-Mediated Dilation in an Elderly Cohort”, Cardiology Research Conference, Jan 2007.


**Dr. Darryl Prime** “Clinical Utility Of Measures Calculated From The Radial Artery Pulse Pressure Wave Form” Cardiology Research Conference, Feb 2007.

**Dr. Susan Lakoski** “Cardiovascular Disease Risk in Women” **Wake** Forest University School of Medicine Medical Student Class, Feb 2007.

**Dr. Susan Lakoski** “Cardiovascular Disease Risk in Women” Winston-Salem Community, June 2007.


**Dr. Brandon Stacey** “Aortic Stiffness and the Left Ventricle” Cardiology Research Conference, Jan 2008.

**Dr. Sidharth Shah** “The Identification and Pathophysiologic Implication of ANG-(1-2) in Human Cardiovascular Disease States” Cardiology Research Conference, Jan 2008.
Dr. Manish Jain “Aortic Stiffness: Is it associated with visceral fat and physical activity?” Cardiology Research Conference, Jan 2009.


Dr. Kurt Daniel “Heart Size by Cardiac CT – A new Epidemiologic (and Clinical?) Tool” Cardiology Research Conference March 2009.

Dr. Stewart Allen “Propensity Score Analysis of Indices of Thrombosis in Users of Selective and Non-selective NSAIDs” Cardiology Research Conference March 2009.


Dr. Sidharth Shah “Associations between NOS1AP Genetic Variants and the QT Interval”, Cardiology Research Conference June 2009.

Dr. Brandon Stacey “Modification of the Effect of Glycemic Status on Aortic Distensibility by Age”, Cardiology Research Conference June 2009.