

BIOGRAPHICAL SKETCH

| NAME Judd, Eric Kimbell | POSITION TITLE Instructor of Medicine | | |
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| eRA COMMONS USER NAME ericjudd | | | |
| EDUCATION/TRAINING | | | |
| INSTITUTION AND LOCATION | DEGREE (if applicable) | MM/YY | FIELD OF STUDY |
| Trinity University, San Antonio | B.S. | 05/03 | Engineering Science |
| Louisiana State University, New Orleans | M.D. | 05/07 | Medicine |
| University of Alabama at Birmingham | Residency | 06/10 | Internal Medicine |
| University of Alabama at Birmingham | Fellowship | 06/12 | Nephrology |
| University of Alabama at Birmingham | Postdoctoral | 06/14 | Vascular Biology & HTN |
| University of Alabama at Birmingham | M.S. | 05/15 | Biostatistics |

Personal Statement

Currently I am an Instructor of Medicine in the Division of Nephrology at the University of Alabama at Birmingham. My long-term career goal is to become an independent clinical investigator and a leader in the field of vascular physiology as it relates to chronic kidney disease (CKD) and hypertension. This goal developed during my unique training experiences in both nephrology and vascular biology. In the second year of my clinical nephrology training, I chose to start a dedicated postdoctoral research fellowship in vascular biology and hypertension supported by a T32 training grant (PI: Suzanne Oparil, MD). Since starting July 2011, my clinical research experience has rapidly grown. I have gained firsthand experience as a sub-investigator in large multi-center clinical trials and as a lead investigator in an R01 clinical trial R01 HL075614 (Calhoun). Work from this trial culminated in an oral presentation at the National American Heart Association Scientific Sessions in 2012. In addition, as part of this study I was exposed to vascular function testing in patients with resistant hypertension. I was intrigued with the possibility that endothelial dysfunction, measured as part of the vascular function testing, could contribute to the progression of CKD; and I began formulating a way to test this hypothesis. I proposed a small clinical trial to investigate the role of the epithelial sodium channel (ENaC) in the vasculature by performing vascular function testing in patients with Liddle's Syndrome. As a result of this feasibility study design, I was awarded UAB's Department of Medicine Walter B. Frommeyer, Jr., Fellowship in Investigative Medicine, a competitive grant for physician-scientists that offers 2 years of research support. I have also submitted an NIH K23 Mentored Patient-Oriented Research Career Development grant application in October 2013 (impact factor 30) with resubmission planned for October 2014.

Currently, I have two office spaces, one within the Division of Nephrology and one within the Hypertension Research Clinic at UAB. The Hypertension Research Clinic houses personnel experienced in all aspects of clinical trials, a procedure laboratory complete with ultrasound equipment for performing measurements of flow-mediated dilation of the brachial artery, a room designed for blood and urine specimen processing, and a temperature controlled study medication storage room. My research interests lie in the prevention of cardiovascular and kidney disease progression in the chronic kidney disease population. Specifically, I am studying the role of endothelial function in chronic kidney disease, and my current research proposal aims to test a novel therapy for endothelial dysfunction in chronic kidney disease. My postdoctoral experiences in clinical research have provided me with a strong foundation in clinical trial work, including vascular function testing and advanced study design and biostatistical analysis. The time dedicated to research afforded by this Scientist Development Grant; my unique and ongoing training in nephrology, patient-oriented research, vascular biology, and biostatistics; my excellent team of consultants and collaborators; and the well-established career development activities at UAB will serve to place me on an ideal career path toward becoming an independent clinical investigator in the area of cardiovascular disease in CKD.

Employment

2011-2014 Postdoctoral Fellow; Vascular Biology and Hypertension Program; Department of Medicine, University of Alabama at Birmingham, NIH/NHLBI T32 HL007457; Supervisor: Suzanne Oparil, MD.

2014 Instructor Department of Medicine; Division of Nephrology; University of Alabama at Birmingham; Supervisor: Anupam Agarwal, MD; full-time starting 7/1/14.

Honors

2002 Kappa Mu Epsilon, Lambda of Texas at Trinity University Chapter
National mathematics honor society

2002 Trinity University Engineering Award, Highest G.P.A. in graduating engineering class

2002 Phi Beta Kappa, Epsilon of Texas at Trinity University Chapter

2004 Elected to Aesculapian Society by Class of 2007

2004 Class of 2007 Oath of Ideals, Selected to write and present Oath at White Coat Ceremony

2006 Daniel W. Beacham M.D. Memorial Scholarship, Faculty appointed scholarship

2007 George H. Karam AOA Teaching Award,
Peer voted award for excellence in teaching during medical school

2008 C. Glenn Cobbs Award,
Best intern history & physicals during VA wards for the month of February

2011 UAB Chief Nephrology Fellow

2012 Nephrology Young Investigators Forum, national oral presentation

2012 American Heart Association Scientific Sessions, Oral abstract presentation

2013 Argus Teaching Award Nominee for best lecturer in the renal module, UAB School of Medicine

2013 Awarded Walter B. Frommeyer, Jr., Fellowship in Investigative Medicine
Grant proposal: "Defining the Vascular Phenotype of Liddle's Syndrome."

Professional Societies

2010 -present American Society of Nephrology

2012 -present American Heart Association

2013 -present American College of Physicians

Publications

- 1) **Judd E**, Jaimes EA. Aliskerin, amlodipine, and hydrochlorothiazide triple combination for hypertension. *Expert Rev Cardiovasc Ther.* 2012; 10(3):293-303. PMID496599.
- 2) **Judd E**, Calhoun DA. Hypertension and orthostatic hypotension in older patients. *J Hypertens.* 2012; 30(1): 38-9. PMID496596.
- 3) **Judd E**, Mehta S, Tolwani A. Specific etiologies of acute kidney injury. In: Lerma EV, Rosner M, eds. *Clinical Decisions in Nephrology, Hypertension, and Renal Transplantation.* New York, NY: Springer; 2013: 199-236.
- 4) **Judd E**, Lockhart ME, Rizk DV. Renovascular hypertension associated with pseudoaneurysm following blunt trauma. *Am J Kidney Dis.* 2013; 62(4):839-43. PMID496588.
- 5) **Judd E**, Ahmed MI, Harms JC, Terry NL, Sonavane SK, Allon M. Pneumonia in hemodialysis patients: a challenging diagnosis in the emergency room. *J Nephrol.* 2013; 26(6):1128-35.
- 6) **Judd EK**, Oparil S. Novel strategies for the treatment of resistant hypertension. *Kidney Int Suppl.* 2013; 3:357-363.
- 7) **Judd E**, Calhoun DA. Apparent and true resistant hypertension: definition, prevalence and outcomes. *J Hum Hypertens.* Accepted Dec 9 2013.
- 8) **Judd E**, Calhoun DA. Management of resistant hypertension: do not give up on medication. *Nephrol Self Assess Program.* Accepted Dec 17 2013.
- 9) **Judd E**, Sanders PW, Agarwal A. Diagnosis and clinical evaluation of acute kidney injury. In: Johnson RJ, Feehally J, Floege J eds. *Comprehensive Clinical Nephrology.* St. Louis, MO: Elsevier Saunders; 2014.

Research Support

6/11-6/14 NIH/NHLBI T32 HL007457 (PI: Suzanne Oparil, MD)
Project: Effects of spironolactone on obstructive sleep apnea in patients with resistant hypertension
Primary Mentor: David A. Calhoun, MD

This is a randomized-controlled clinical trial [ClinicalTrials.gov (NCT01897727)]. I was involved in all aspects of this study beyond study design. My role as the primary investigator included participant recruitment, open-label randomization, performing all study visits, data collection and analysis, participant safety monitoring, manuscript preparation and submission.

Project: Characterizing refractory hypertension; Primary Mentor: David A. Calhoun, MD.

This is a retrospective cohort study of over 400 patients referred to our Hypertension Specialty Clinic for evaluation of resistant hypertension. My role as the primary investigator included study design, data collection and analysis, and abstract preparation. The manuscript is in preparation.

7/13 -7/15

Walter B. Frommeyer, Jr., Fellowship in Investigative Medicine

Project: Defining the vascular phenotype of Liddle's Syndrome

Primary Mentor: David A. Calhoun, MD; Co-Mentor: David G. Warnock

This is a prospective clinical trial involving Liddle's Syndrome participants and matched controls. As the principal investigator, I am intimately involved in all aspects of this study including: study design, institutional review board submission, participant recruitment, and data collection. The study consists of a single visit for vascular function testing with anticipated completion 7/14.