

CURRICULUM VITAE: Updated 6/11/19

A. PERSONAL INFORMATION

Tara I. Chang, MD, MS, FASN
Associate Professor of Medicine (Nephrology)
Director of Clinical Research
Stanford University Division of Nephrology
Twitter: @taraichang

I am a nephrologist, epidemiologist, and clinical researcher who focuses on cardiovascular outcomes in patients with chronic kidney disease (CKD) – a population at high risk for the devastating consequences of cardiovascular events such as stroke, myocardial infarction, or limb amputation. As Director of Clinical Research in the Stanford Division of Nephrology, I lead a talented group of biostatisticians, fellows and other trainees to conduct studies that creatively leverage large existing databases to answer questions not addressed by currently available trial data. I also participate in randomized clinical trials focused on hypertension, cardiovascular disease, and CKD. The long-term goal of my research program is to help define optimal treatments for patients with CKD to improve cardiovascular outcomes

B. EDUCATIONAL BACKGROUND

Universities Attended

BA, Magna Cum Laude in Biochemical Sciences Harvard University, Cambridge, MA	1999
MD with Distinction University of Michigan Medical School, Ann Arbor, MI	2003
MS in Epidemiology Stanford University Department of Health Research and Policy, Palo Alto, CA	2009

Postdoctoral Training

Internship and Residency, Internal Medicine Categorical Program University of California, San Francisco, San Francisco, CA	2003-2006
Clinical Fellowship, Nephrology Stanford University, Palo Alto, CA	2007-2009
Postdoctoral Fellowship, Nephrology (Advisor: Glenn M. Chertow) Stanford University, Palo Alto, CA	2008-2010
Research Fellow, American Heart Association Stanford-Kaiser Cardiovascular Outcomes Research Center (Advisors: Mark A. Hlatky and Alan S. Go) Stanford University, Palo Alto, CA	2010-2012

Scholarships and Honors

Alpha Omega Alpha	2001
Abigail Marie Shaw Lawler Scholarship	2001
Dean's Commendation for Excellence in Clinical Skills and the Art of Medicine	2003
Janet M. Glasgow Memorial Achievement Citation	2003
Katherine McCormick Travel Grant	2009
8 th Annual Nephrology Young Investigator Forum, 2 nd place, Clinical Research	2010
American Heart Association QCOR Early Career Investigator Travel Award	2012

Licensure and Board Certifications

California State Medical License	2005-present
American Board of Internal Medicine, Certified	2006-present
American Board of Internal Medicine, Nephrology Specialty, Certified	2009-present
American Society of Hypertension, Specialist in Clinical Hypertension, Certified	2012-present

C. EMPLOYMENT

Academic Appointments

Clinical Instructor Stanford University School of Medicine, Division of Nephrology, Palo Alto, CA	9/09-6/12
Instructor of Medicine Stanford University School of Medicine, Division of Nephrology, Palo Alto, CA	7/12-9/15
Assistant Professor of Medicine (Nephrology) at the Stanford University Medical Center Stanford University School of Medicine, Division of Nephrology, Palo Alto, CA	10/1/15-4/30/19
Associate Professor of Medicine (Nephrology) at the Stanford University Medical Center Stanford University School of Medicine, Division of Nephrology, Palo Alto, CA	5/1/19-

Administrative Leadership Appointments

Co-Ambulatory Medical Director Stanford University School of Medicine, Division of Nephrology, Palo Alto, CA	9/13-9/17
Director of Clinical Research Stanford University School of Medicine, Division of Nephrology, Palo Alto, CA	2/15-present

Clinical Trial Experience

Co-Site PI, Systolic Blood Pressure Intervention Trial (SPRINT). NCT01206062. Sponsor: NIH	10/10-10/16
Co-National Leader, Evaluation of the Effects of Canagliflozin on Renal and Cardiovascular Outcomes in Participants with Diabetic Nephropathy (CREDENCE). NCT02065791. Sponsor: Janssen R&D, LLC	8/14-11/18
PI, Timing of Antihypertensive Medications on Key Outcomes in Hemodialysis (TAKE-HOLD). NCT03327909. Sponsor: Satellite Healthcare	10/17-present
Co-Site PI, Controlling and Lowering Blood Pressure with the MobiusHD™ (CALM-2). NCT03179800. Sponsor: Vascular Dynamics, Inc.	3/19-present

Events Adjudication Committee

Canagliflozin Cardiovascular Assessment Study (CANVAS) and Study of the Effects of Canagliflozin on Renal Endpoints in Adult Subjects with T2DM (CANVAS-R). NCT01032629, NCT01989754. Sponsor: Janssen R&D, LLC	6/16-2/17
Evaluation of the Effects of Canagliflozin on Renal and Cardiovascular Outcomes in Participants with Diabetic Nephropathy (CREDENCE). NCT02065791. Sponsor: Janssen R&D, LLC	8/14-11/18
Semaglutide Effects on Heart Disease and Stroke in Patients With Overweight or Obesity (SELECT). NCT03574597. Sponsor: Novo Nordisk.	5/18-present
Evaluation of Effect of TRC101 on Progression of Chronic Kidney Disease in Subjects with Metabolic Acidosis (VALOR-CKD). NCT 03710291. Sponsor: Tricida, Inc.	2/19-present

Past Hospital Affiliations

Hospitalist Eden Medical Center, Castro Valley, CA	7/06-6/07
Hospitalist, Pool Physician Kaiser Permanente Santa Clara Santa Clara, CA	7/06-6/07
Staff Physician, Internal Medicine Intake Clinic Veterans Affairs Medical Center, San Francisco, CA	7/06-6/07

D. RESEARCH FUNDING

Past

Funder: NIH Institutional Research Training Grant (NRSA T32)	2008-2010
--	-----------

Role: Postdoctoral Fellow

Funder: NIH Loan Repayment Award 2008-2015
Role: PI

Funder: National Kidney Foundation Fellowship Research Grant 2010 (Declined)
Title: Renin Angiotensin System Inhibitors and Outcomes in Hemodialysis Patients
Role: PI
Award declined due to acceptance of research fellowship position in the American Heart Association Stanford-Kaiser Cardiovascular Outcomes Research Center

Funder: NIH/NIDDK Awards for Individual Postdoctoral Fellows (NRSA F32) 2010 (Declined)
Title: Renin Angiotensin System Inhibitors and Outcomes in Hemodialysis Patients
Role: PI
Award declined due to acceptance of research fellowship position in the American Heart Association Stanford-Kaiser Cardiovascular Outcomes Research Center

Funder: American Heart Association Western States Affiliate Clinical Research Program Award 2012 (Declined)
Title: Blood Pressure Variability in Chronic Kidney Disease
Role: PI
Award declined due to receipt of the American Heart Association Scientist Development Grant

Funder: American Heart Association National Center Scientist Development Grant (12SDG11670032) 2012-2013
Title: Towards Optimizing Cardiovascular Care in Chronic Kidney Disease
Award declined after receipt of the K23 (see below).
Role: PI

Funder: Stanford Prevention Research Center Innovation Award in Population Science 2012-2013
Title: Blood Pressure Variability in Patients with Chronic Kidney Disease in the African American Study of Kidney Diseases and Hypertension (AASK)
Role: PI

Funder: NIH/NIDDK Career Development Award (K23 DK095914) 2013-2018
Title: Towards Optimizing Cardiovascular Care in Chronic Kidney Disease
Role: PI

Present

Funder: NIH/NIDDK (R01 DK095024) 2015-2019
Title: The Atrial Fibrillation – Factor Identification to Risk Modification Study in HD (AFFIRM)
Role: Co-Investigator (PI: W. Winkelmayr)

Funder: Norman S. Coplon Award, Satellite Healthcare Title: The Timing of Antihypertensive Medications on Key Outcomes in Hemodialysis (TAKE-HOLD) Study Role: PI	2017–2019
Funder: Stanford Cardiovascular Institute Seed Grant Title: Harnessing Big Data to Reduce Peripheral Artery Disease-Related Leg Amputation in Chronic Kidney Disease Role: PI	2017–2019
Funder: NIH/NIDDK (R03 DK113341). Title: Peripheral Arterial Disease in Older Patients with Chronic Kidney Disease Role: PI	2018-2020
Funder: American Heart Association Innovative Project Award (19IPLOI34760323) Title: Creating a Platform for Point-of-Care Pragmatic Clinical trials: Comparing Diuretic Strategies in Heart Failure Role: PI	2019-2021
Pending Funder: NIA/NIDDK (R01AG065580) Title: Peripheral Artery Disease in Older Patients with End-Stage Renal Disease on Dialysis: Preserving Limb and Enhancing Quality of Life Role: PI	2019-2024 Submitted

E. PUBLIC AND PROFESSIONAL SERVICE

Committee Memberships

Fellowship Selection Committee, Stanford Division of Nephrology, Member	2012-present
National Kidney Foundation Northern California Medical Advisory Board	2015-present
National Kidney Foundation, Bay Area Medical Symposium, Planning Committee	2016-2017
National Kidney Foundation, 2017 and 2018 Spring Clinical Meeting, Planning Committee, Hypertension	2016-2018
Kidney Disease: Improving Global Outcomes (KDIGO) Blood Pressure Guideline Update Work Group	2016-present
American Heart Association Grant Peer Reviewer	2017-present
American Heart Association Writing Committee, “Cardio-Renal Syndrome: Epidemiology, Pathophysiology, Diagnosis and Treatment Strategies”	2017-2018

National Kidney Foundation Kidney Disease Outcomes Quality Initiative (KDOQI) Workgroup: Commentary on 2017 ACC/AHA Hypertension Guidelines	2017-2018
American Heart Association Council of the Kidney in Cardiovascular Disease Leadership Committee	7/17 – present
Kidney Disease: Improving Global Outcomes (KDIGO) Controversies Conference on Coronary Artery and Valvular Disease	6/2018
American Society of Nephrology Highlights Hypertension Faculty	2018-2021

Committee Leadership Roles

National Kidney Foundation Bay Area Medical Symposium, Chair	2014-2015
National Kidney Foundation Young Investigator’s Forum Clinical Research Judging Panel, Chair	2017
Kidney Disease: Improving Global Outcomes (KDIGO) Controversies Conference on Blood Pressure in Chronic Kidney Disease, Steering Committee	9/17-present
Kidney Disease: Improving Global Outcomes (KDIGO) Controversies Conference on Blood Pressure and Volume Management in Dialysis, Steering Committee	9/18-present
Kidney Disease: Improving Global Outcomes (KDIGO) Executive Committee	1/19-present
American Society of Nephrology Kidney Week Dialysis: Hemodialysis and Frequent Dialysis Abstract Category Chair	2019

Editorial Positions

Associate Editor, American Heart Journal	March 2016-present
Editorial Board, Clinical Journal of the American Society of Nephrology	Jan 2017-present
Editorial Board, Journal of the American Society of Hypertension	Dec 2017-Dec 2018

Ad Hoc Reviewer

American Heart Journal
American Journal of Kidney Diseases
American Journal of Epidemiology
American Journal of Hypertension
American Journal of Preventive Medicine
American Journal of Transplantation

American Society of Nephrology Kidney Week Abstract Reviewer (2012, 2014-2017)
 British Medical Journal
 Circulation
 Circulation: Cardiovascular Quality and Outcomes
 Circulation: Heart Failure
 Clinical Journal of the American Society of Nephrology
 European Journal of Clinical Investigation
 Hemodialysis International
 Hypertension
 Journal of the American College of Cardiology
 Journal of the American Heart Association
 Journal of the American Medical Association
 Journal of the American Society of Nephrology
 Kidney International
 Nephrology Dialysis Transplantation
 PLOS One

F. POST-DEGREE HONORS AND AWARDS, INCLUDING MEMBERSHIPS IN PROFESSIONAL SOCIETIES

National Cardiovascular Data Registry (NCDR) CathPCI Registry, Acute Kidney Injury Risk Model advisory panel, Member	2011-2013
American Heart Association, Council on Kidney in Cardiovascular Disease, Member	2011-present
American Society of Nephrology, Member	2011-present
Fellow of the American Society of Nephrology	2014
11 th Annual Northwestern Cardiovascular Young Investigators' Forum, Outstanding Junior Faculty Clinical Research, 2 nd Place	2015
National Kidney Foundation, Member	2016-present
Fellow of the National Kidney Foundation	2016
The American Society for Clinical Investigation Young Physician-Scientist Award	2019

G. BIBLIOGRAPHY

<http://www.ncbi.nlm.nih.gov/sites/myncbi/tara.chang.1/bibliography/47728106/public/?sort=date&direction=ascending>

Peer-Reviewed Original Research (69 total, 21 first author, 13 senior author)

1. Fine E, Horal M, **Chang T**, Fortin G, Loeken MR. Evidence That Elevated Glucose Causes Altered Gene Expression, Apoptosis, and Neural Tube Defects in a Mouse Model of Diabetic Pregnancy. Diabetes 1999; 48:2454-2462. PMID: 10580436.

2. **Chang TI**, Horal M, Jain SK, Wang F, Patel R, Loeken MR. Oxidant regulation of gene expression and neural tube development: Insights gained from diabetic pregnancy on molecular causes of neural tube defects. *Diabetologia* 2003; 46:538-545. PMID: 12739027.
3. **Chang TI**, Paik J, Greene T, Miskulin DC, Chertow GM. Updated comorbidity assessments and outcomes in prevalent hemodialysis patients. *Hemodial Int* 2010; 14: 478-498. PMID: 20955281.
4. **Chang TI**, Friedman GD, Cheung AK, Greene T, Desai M, Chertow GM. Systolic blood pressure and mortality in prevalent hemodialysis patients in the HEMO study. *J Hum Hypertens* 2011; 25: 98-105. Epub 2010 Apr 22. PMID: 20410919.
5. **Chang TI**, Desai M, Solomon DH, Winkelmayr WC. Kidney function and long-term medication adherence after myocardial infarction in the elderly. *Clin J Am Soc Nephrol* 2011; 6: 864-869. Epub 2011 Jan 13. PMID: 21233459.
6. **Chang TI**, Paik J, Greene T, Desai M, Bech F, Cheung AK, Chertow GM. Intradialytic hypotension and vascular access thrombosis. *J Am Soc Nephrol* 2011; 22: 1526-1533. PMID: 21803971.
7. **Chang TI**, Shilane D, Brunelli SM, Cheung AK, Chertow GM, Winkelmayr WC. Angiotensin converting enzyme inhibitors and cardiovascular outcomes in patients on maintenance hemodialysis. *Am Heart J* 2011; 162:324-330. Epub 2011 Jul 18. PMID: 21835294.
8. Peralta CA, Shlipak M, Tamura M, Bakris G, McCullough P, **Chang TI**, Jolley S, Norris K, Li S. Blood pressure components and incident end stage renal disease among persons with chronic kidney disease – results from the Kidney Early Evaluation Program (KEEP). *Arch Intern Med* 2012; 172:41-47. PMID: 22232147.
9. **Chang TI**, Gao L, Brown TM, Safford M, Judd S, McClellan W, Limdi N, Muntner P, Winkelmayr WC. Use of secondary prevention medications among adults with reduced kidney function. *Clin J Am Soc Nephrol* 2012; 7: 604-611. Epub 2012 Feb 16. PMID: 22344513.
10. **Chang TI**, Shilane D, Kazi DS, Montez-Rath M, Hlatky MA, Winkelmayr WC. Multivessel coronary artery bypass grafting versus percutaneous coronary intervention in maintenance dialysis. *J Am Soc Nephrol* 2012; 23:2042-9. PMID: 23204445.
11. Brunelli SM, Waikar SS, Bateman BT, **Chang TI**, Lii J, Garg AX, Winkelmayr WC, Choudhry NK. Pre-operative statin use and post-operative acute kidney injury. *Am J Med* 2012; 125:1195-1204. Epub 2012 Oct 9. PMID: 23062398.
12. **Chang TI**, Yang J, Freeman JV, Hlatky MA, Go AS. Effectiveness of β -blockers in heart failure with left ventricular systolic dysfunction and chronic kidney disease. *J Card Fail* 2013; 19: 176-82. PMID: 23482078.
13. **Chang TI**, Li S, Chen SC, Peralta CA, Shlipak MG, Fried LF, Whaley-Connell AT, McCullough PA, Tamura MK. Risk factors for ESRD in preserved estimated GFR with and without albuminuria: results

from the Kidney Early Evaluation Program (KEEP). *Am J Kidney Dis* 2013; 61(suppl 2): S4-S11. PMID: 23507268.

14. Flythe JE, Inrig JK, Shafi T, **Chang TI**, Cape K, Dinesh K, Kunaparaju S, Brunelli SM. Intradialytic blood pressure variability is associated with increased all-cause and cardiovascular mortality. *Am J Kidney Dis* 2013; 61:966-74. Epub 2013 Mar 6. PMID: 23474007.
15. Shen JJ, Mitani AA, **Chang TI**, Winkelmayer WC: Use and Safety of Heparin-Free Maintenance Hemodialysis in the United States. *Nephrol Dial Transpl* 2013; 28:1589-1602. Epub 2013 Apr 5. PMID: 23563280.
Editorial: Naummik B and Mysilwiec M, Nat Rev Nephrol 2013 Jul; 9: 381-2. PMID: 23732459.
16. Hlatky MA, Boothroyd DB, Baker L, Kazi DS, Solomon M, **Chang TI**, Shilane D, Go AS. Comparative effectiveness of multivessel coronary bypass surgery and multivessel percutaneous coronary intervention: a cohort study. *Ann Intern Med* 2013; 158: 727-34. PMID: 23609014.
Editorial: King A, Nat Rev Cardiol 2013 Jul; 10: 365. PMID: 23670615.
17. **Chang TI**, Leong TK, Kazi SD, Lee H, Hlatky MA, Go AS. Comparative effectiveness of coronary artery bypass grafting and percutaneous coronary intervention for multivessel coronary disease in a community-based population with chronic kidney disease. *Am Heart J* 2013; 165: 800-808. Epub 2013 Apr 2. PMID: 23622918.
18. **Chang TI**, Flythe J, Brunelli SM, Muntner PM, Greene T, Cheung AK, Chertow GM. Visit-to-visit systolic blood pressure variability and outcomes in hemodialysis. *J Hum Hypertens* 2013, 28: 18-24. Epub 2013 June 27. PMID: 23803593.
19. Lenihan C, Montez-Rath M, Winkelmayer WC, **Chang TI**. Multivessel coronary revascularization and outcomes in kidney transplant recipients. *Transpl Int* 2013; 26:1080-1087. Epub 2013 Aug 20. PMID: 23957580.
20. Goldstein BA, **Chang TI**, Mitani AA, Assimes TL, Winkelmayer WC. Near-term prediction of sudden cardiac death in older patients using the electronic health records of a large dialysis provider. *Clin J Am Soc Nephrol* 2014; 15: 87-95. Epub 2013 Oct 31. PMID: 24178968.
21. Hlatky MA, Shilane D, **Chang TI**, Boothroyd DB, Go AS. Incremental prognostic information from kidney function in patients with new onset coronary heart disease. *Am Heart J* 2014; 167:86-92. Epub 2013 Oct 23. PMID: 24332146.
22. Tsai TT, Patel UD, **Chang TI**, Kennedy KF, Masoudi FA, Methaney ME, Kosiborod M, Messenger JC, Rumsfeld JS, Spertus JA. Contemporary incidence, predictors and outcomes of acute kidney injury in patients undergoing percutaneous coronary interventions: insights from the NCDR cath-PCI registry. *JACC Cardiovasc Interv* 2014; 7:1-9. PMID: 24456715.
23. Solomon MD, Go AS, Shilane D, Boothroyd DB, Leong TK, Kazi DS, **Chang TI**, Hlatky MA. Comparative effectiveness of clopidogrel in medically managed patients with unstable angina and non-ST segment myocardial infarction. *J Am Coll Cardiol* 2014; 63: 2249-2257. Epub 2014 Apr 2. PMID: 24703914.

Editorial: Ohman EM, Harskamp RE, J Am Coll Cardiol 2014; 63: 2258-60. PMID: 24703914.

24. Andersson C, Shilane D, Go AS, **Chang TI**, Kazi D, Solomon MD, Boothroyd DB, Hlatky MA. Beta-blocker therapy and cardiac events among patients with newly diagnosed coronary heart disease. *J Am Coll Cardiol* 2014; 64: 247-52. PMID: 25034059.
Editorial: Steg PG, De Silva R, J Am Coll Cardiol 2014; 64: 253-5. PMID: 25034060.
25. Krishnaswami A, Leong TK, Hlatky MA, **Chang TI**, Go AS. Temporal trends in mortality after coronary artery bypass grafting or percutaneous coronary intervention in adults with end-stage renal disease. *Perm J* 2014; 18: 11-16. PMID: 25102514.
26. Krishnaswami A, **Chang TI**, Jang JJ, Leong TK, Go AS. The association of gender to cardiovascular outcomes after coronary artery revascularization in patients with end-stage renal disease. *Clinical Cardiology* 2014; 9: 546-51. Epub 2014 Jun 30. PMID: 24980833.
27. **Chang TI**, Leong TK, Boothroyd DB, Hlatky MA, Go AS. Acute kidney injury after CABG versus PCI: an observational study using two cohorts. *J Am Coll Cardiol* 2014; 64: 985-994. PMID: 25190232.
Editorial: Singh M, J Am Coll Cardiol 2014; 64: 995-6. PMID: 25190233.
28. **Chang TI**, Montez-Rath, ME, Shen TI, Solomon MD, Chertow GM, Winkelmayr WC. Thienopyridine use after coronary stenting in low income patients receiving maintenance dialysis enrolled in Medicare Part D. *J Am Heart Assoc* 2014, 3:e001356 doi: 10.1161/JAHA.114.001356. PMID: 25336465.
29. Tsai TT, Patel UD, **Chang TI**, Kennedy KF, Masoudi FA, Methaney ME, Kosiborod M, Amin AP, Weintraub WS, Curtis JP, Messenger JC, Rumsfeld JS, Spertus JA. Validated contemporary risk model of acute kidney injury in patients undergoing percutaneous coronary interventions: insights from the National Cardiovascular Data Registry Cath-PCI Registry. *J Am Heart Assoc* 2014 Dec; 3(6):e001380, PMID: 25516439.
30. Shilane D, Hlatky MA, Winkelmayr WC, **Chang TI**. Coronary artery bypass type and outcomes in maintenance dialysis. *J Cardiovasc Surg* 2015; 56: 463-71. Epub 2013 Dec 17. PMID: 24343371.
31. Winkelmayr WC, Herzog CA, Montez-Rath ME, **Chang TI**, Chertow GM. Use of novel oral anticoagulants in patients with end-stage renal disease. *Hemodial Int* 2015; 19: 140-3. Epub 2014 Dec 12. PMID: 25495752.
32. Lenihan CR, Montez-Rath ME, Shen JI, Scandling JD, Turakhia MP, **Chang TI**, Winkelmayr WC. Correlates and outcomes of warfarin initiation in kidney transplant recipients newly diagnosed with atrial fibrillation. *Nephrol Dial Transpl* 2015; 30: 321-9. Epub 2014 Oct 21. PMID: 25335507.
33. Kazi DS, Leong TK, **Chang TI**, Solmon MD, Hlatky MA, Go AS. Association of spontaneous bleeding and myocardial infarction with long-term mortality after percutaneous coronary intervention. *J Am Coll Cardiol* 2015, 65: 1411-1420. PMID: 25857906.
Editorial: Rao SV, J Am Coll Cardiol 2015; 65: 1421-3. PMID 25857907.
34. Winkelmayr WC, **Chang TI**, Mitani AA, Wilhelm-Leen ER, Ding V, Chertow GM, Brookhart MA, Goldstein BA. Longer-term outcomes of darbepoetin alfa versus epoetin alfa in patients with ESRD

initiating hemodialysis: a quasi-experimental cohort study. *Am J Kidney Dis* 2015; 66: 106-13. Epub 2015 May 2. PMID: 25943715.

35. Shen JI, Montez-Rath ME, Lenihan CR, Turakhia M, **Chang TI***, Winkelmayer WC: Outcomes after warfarin initiation in a cohort of hemodialysis patients with newly diagnosed atrial fibrillation. *Am J Kidney Dis* 2015; 66:677-88. Epub 2015 Jul 7. PMID: 26162653. *Participated in interpretation of data, and critical revision of the manuscript for important intellectual content, particularly the Discussion section.
36. **Chang TI**, Abdalla S, London GM, Block GA, Correa-Rotter R, Drueke, TB, Floege, J, Herzog CA, Mahaffey KW, Moe SM, Parfrey PS, Wheeler DC, Dehmel B, Goodman WG, Chertow GM. The effects of cinacalcet on blood pressure, mortality and cardiovascular endpoints in the EVOLVE trial. *J Hum Hypertens* 2016; 30: 204-9. Epub 2015 Jun 4. PMID: 26040438.
37. Airy M, Mandayam S, Mitani AA, **Chang TI***, Ding VY, Brookhart MA, Goldstein BA, Winkelmayer WC: Comparative outcomes of predominant facility-level use of ferumoxytol versus other intravenous iron formulations in incident hemodialysis patients. *Nephrol Dial Transplant* 2015; 20: 2068-75. Epub 2015 Aug 26. PMID: 26311216. *Participated in study design, analysis and interpretation of data, critical revision of the manuscript for important intellectual content.
38. Goldstein BA, **Chang TI***, Winkelmayer WC: Classifying individuals based on a densely captured sequence of vital signs: An example using repeated blood pressure measurements during hemodialysis treatment. *J Biomed Inform* 2015; 57:219-24. Epub 2015 Aug 13. PMID: 26277118. *Participated in study design, analysis and interpretation of data, drafting and critical revision of the manuscript for important intellectual content.
39. Hong K, Muntner P, Kronish I, Shilane D, **Chang TI**. Medication adherence and visit-to-visit variability of systolic blood pressure in African Americans with chronic kidney disease in the AASK trial. *J Hum Hypertens* 2016; 30: 73-8. Epub 2015 Apr 2. PMID: 25833706.
40. **Chang TI**, Tabada GH, Yang J, Tan TX, Go AS. Visit-to-visit variability of blood pressure and death, ESRD and cardiovascular events in patients with chronic kidney disease. *J Hypertens* 2016; 34:244-262. PMID 26599220.
Editorial: Redon J, J Hypertens 2016; 34: 188-90. PMID 26682785.
41. Rhee JJ, Qin FF, Hedlin HK, **Chang TI***, Bird CE, Zaslavsky O, Manson JE, Stefanick ML, Winkelmayer WC. Coffee and caffeine consumption and the risk of hypertension in postmenopausal women. *Am J Clin Nutr* 2016; 103: 210-7. Epub 2015 Dec 9. PMID: 26657046. *Participated in interpretation of data and critical revision of the manuscript for important intellectual content.
42. **Chang TI**, Evans G, Cheung AK, Cushman WC, Diamond MJ, Dwyer JP, Huan Y, Kitzman D, Kostis JB, Oparil S, Rastogi A, Roumie C, Sahay R, Stafford RS, Taylor AA, Wright Jr., JT, Chertow GM, for the SPRINT Study Research Group. Patterns and correlates of baseline thiazide-type diuretic prescription in the systolic blood pressure intervention trial (SPRINT). *Hypertension* 2016; 67: 550-5. Epub 2016 Jan 25. PMID: 26865200.
43. Tuohy CV, Montez-Rath ME, **Chang TI***, Turakhia M, Winkelman JW, Winkelmayer WC. Sleep disordered breathing and cardiovascular risk in older patients initiating dialysis in the United States:

A retrospective observational study using Medicare data. BMC Nephrol 2016; 17:16. PMID: 26861778. *Participated in analysis and interpretation of data, and critical revision of the manuscript for important intellectual content.

44. **Chang TI**, Montez-Rath ME, Tsai TT, Hlatky MA, Winkelmayr WC. Drug-Eluting Stents versus Bare Metal Stents during Percutaneous Coronary Intervention in Patients with End-Stage Renal Disease on Dialysis. J Am Coll Cardiol 2016; 67: 1459-69. PMID: 27012407.
Editorial: Bavry AA, Park K, J Am Coll Cardiol 2016; 67: 1470-1. PMID 27012408.
45. Shen JI, Saxena AB, Montez-Rath ME, **Chang TI***, Winkelmayr WC. Angiotensin-converting enzyme inhibitor/angiotensin receptor blocker use and cardiovascular outcomes in patients initiating peritoneal dialysis. Nephrol Dial Transplant 2016; 32: 862-869. PMID: 27190342. *Participated in analysis and interpretation of data, and critical revision of the manuscript for important intellectual content.
46. Kronish IM, Lynch AI, Oparil S, Whittle J, Davis BR, Simpson LM, Krousel-Wood M, Cushman WC, **Chang TI***, Muntner P. The association between antihypertensive medication nonadherence and visit-to-visit variability of blood pressure. Findings from the Antihypertensive and Lipid-Lowering Treatment to Prevent Heart Attack Trial. Hypertension 2016; 68: 32-33. Epub 2016 May 23. PMID: 27217410. *Participated in interpretation of data and critical revision of the manuscript for important intellectual content.
47. **Chang TI**, Zheng Y, Montez-Rath ME, Winkelmayr WC. Antihypertensive medication use in older patients transitioning from chronic kidney disease to end-stage renal disease on dialysis. Clin J Am Soc Nephrol 2016; 11:1401-12. Epub 2016 Jun 27. PMID: 27354656.
48. Shen JI, Saxena AB, Montez-Rath ME, Leng L, **Chang TI***, Winkelmayr WC. Comparative effectiveness of angiotensin receptor blockers vs. angiotensin-converting enzyme inhibitors on cardiovascular outcomes in patients initiating peritoneal dialysis. J Nephrol, 2017; 30: 281-288. Epub 2016 Aug 2. PMID: 27485007. *Participated in interpretation of data and critical revision of the manuscript for important intellectual content.
49. Townsend R, **Chang TI***, Cohen DL, Cushman WC, Evans GW, Glasser SP, Haley WE, Olney C, Oparil S, Del Pinto R, Pisoni R, Taylor AA, Umanath K, Wright Jr., JT, Yeboah J, for the SPRINT Study Research Group. Orthostatic changes in systolic blood pressure among SPRINT participants at baseline. J Am Soc Hypertens, 2016; 10: 847-856. Epub 2016 Aug 27. PMID 27665708. *Participated in study design, analysis and interpretation of data, and critical revision of the manuscript for important intellectual content.
50. Lenihan, CR, Montez-Rath ME, Winkelmayr WC, **Chang TI**. Drug-eluting stents versus bare metal stents for percutaneous coronary intervention in kidney transplant recipients. Transplantation, 2017; 101: 851-857. Epub 2016 Aug 11. PMID: 27517730.
51. Winkelmayr WC, Goldstein BA, Mitani AA, Ding VY, Airy M, Mandayam S, **Chang TI***, Brookhart MA, Fishbane S. Safety of intravenous iron in Hemodialysis: Longer-term comparisons of iron sucrose versus sodium ferric gluconate complex. Am J Kidney Dis 2017; 69: 771-779. Epub 2017 Jan 4. PMID 28063734. *Participated in interpretation of data and critical revision of the manuscript for important intellectual content.

52. Rhee JJ, Zheng Y, Montez-Rath ME, **Chang TI***, Winkelmayr WC. Associations of glycemic control with cardiovascular outcomes among U.S. hemodialysis patients with diabetes mellitus. *J Am Heart Assoc*, 2017 Jun 7; 6 (6). Pii: e005571. Doi: 10.1161/JAHA.117.05581. PMID 28592463. *Participated in study design, analysis and interpretation of data, and critical revision of the manuscript for important intellectual content.
53. Cheung AK, Rahman M, Reboussin DM, Craven TE, Greene T, Kimmel PL, Cushman WC, Hawfield AT, Johnson KC, Lewis CE, Oparil S, Rocco MV, Sink KM, Whelton PK, Wright Jr. JT, Basile J, Beddhu S, Bhatt U, **Chang TI***, Chertow GM, Chonchol M, Freedman BI, Haley W, Ix JH, Katz LA, Killeen AA, Papademetriou V, Ricardo AC, Servilla K, Wall B, Wolfgram D, Yee J, for the SPRINT Study Research Group. Effects of Intensive BP Control in CKD. *J Am Soc Nephrol*, 2017; 28: 2812-2823. Epub June 22, 2017. PMID 28642330. *Participated in analysis and interpretation of data, and critical revision of the manuscript for important intellectual content.
54. **Chang TI**, Reboussin DM, Chertow GM, Cheung AK, Cushman WC, Kostis WJ, Parati G, Raj D, Riessen E, Shapiro B, Stergiou GS, Townsend RR, Tsioufis K, Whelton PK, Whittle J, Wright JT, Papademetriou V, for the SPRINT Study Research Group. Visit-to-visit office blood pressure variability and cardiovascular outcomes in the Systolic Blood Pressure Intervention Trial (SPRINT). *Hypertension*, 2017; 70: 751-758. Epub July 31, 2017. PMID 28760939.
55. Montez-Rath ME, Zheng Y, Grubbs V, Kurella Tamura M, Winkelmayr WC, **Chang TI**. Hospitalizations and nursing facility stays during the transition from CKD to ESRD on dialysis: An observational study. *J Gen Intern Med* 2017; 32: 1220-1227. Epub Aug 14 2017. PMID 28808869.
56. Fung E, **Chang TI***, Chertow GM, Thomas IC, Asch SM, Kurela Tamura M. Receipt of nephrology care and clinical outcomes among veterans with advanced CKD. *Am J Kidney Dis*, 2017; 70:705-714. Epub 2017 Aug 12. PMID 28811048. *Participated in analysis / programming for the project, interpretation of data, and critical revision of the manuscript for important intellectual content. *Winner of "Editors' Choice" award – only one of two recipients of this award recognizing outstanding articles published in 2017.*
57. Airy M, **Chang TI***, Ding VY, Goldstein BA, Bansal N, Niu J, Navaneethan SD, Turakhia MP, Winkelmayr WC: Risk profiles for acute health events after incident atrial fibrillation in patients with end-stage renal disease on hemodialysis. *Nephrol Dial Transplant*, 2017. Epub ahead of print November 13, 2017. DOI: 10.1093/ndt/gfx301. PMID 29145634. *Participated in interpretation of data and critical revision of the manuscript for important intellectual content.
58. Haase S, Chang S, Schiller B, Chertow GM, **Chang TI**. Antihypertensive medication withholding practices in hemodialysis: a survey study of patients and providers. *Hemodial Int*, 2018; 22: 415-418. PMID 29436151.
59. Itoga NK*, Tawfik DS*, Lee CK, Maruyama S, Leeper NJ, **Chang TI**. Association of blood pressure measurements with peripheral arterial disease events: a reanalysis of the ALLHAT data. *Circulation*, 2018. Epub June 21, 2018. DOI 10.1161/CIRCULATIONAHA.118.033348. *Co-First Authors. PMID 29930023.

60. Franz D, Zheng Y, Leeper NJ, Chandra V, Montez-Rath ME, **Chang TI**. Trends in lower extremity amputation among patients with end-stage renal disease who receive dialysis. *JAMA Intern Med*, 2018; 178: 1025-1032. PMID 29987332.
61. Seong EY, Zheng Y, Montez-Rath ME, Winkelmayer WC, **Chang TI**. The relationship between intradialytic hypotension and hospitalized mesenteric ischemia: a case-control study. *Clin J Amer Soc Nephrol* Epub Sep 2018, CJN.13891217; DOI: 10.2215/CJN.13891217. PMID 30237215. *Highlighted as one of the "Best of CJASN" at ASN Kidney Week 2018.*
Editorial: Inrig JK, CJASN Sept 2018, CJN.10150818; DOI: <https://doi.org/10.2215/CJN.10150818>.
62. Niu J, Shah MK, Perez JJ, Airy M, Navaneethan SD, Turakhia MP, **Chang TI**, Winkelmayer WC. Dialysis modality and incident atrial fibrillation in older patients with end-stage renal disease. *Am J Kidney Dis*, 2018 Nov 15. doi: 10.1053/j.ajkd.2018.09.011. [Epub ahead of print]. *Participated in analysis and interpretation of data and critical revision of the manuscript for important intellectual content. PMID 30449517.
63. Anumudu S, Airy M, Erickson KF, Navaneethan SD, **Chang TI**, Winkelmayer WC, Niu J: Predialysis nephrology care and incident atrial fibrillation in older patients with ESKD initiating dialysis. *Kidney Int Rep*; 2019; 4:679-687. *Participated in analysis and interpretation of data and critical revision of the manuscript for important intellectual content. PMID 30449517.
Editorial: Hundermer GL, Sood MM, Kidney Int Rep; 2019; <https://doi.org/10.1016/j.ekir.2019.03.101>
64. Silver SA, Long J, Zheng Y, Goldstone AB, Franz, D, **Chang TI**, Chertow GM. Outcomes after left ventricular assist device implantation in patients with acute kidney injury. *J Thorac Cardiovasc Surg* 2019 Apr 4. doi: 10.1016/j.jtcvs.2019.03.064. [Epub ahead of print]. PMID 31053433. *Participated in analysis and interpretation of data and critical revision of the manuscript for important intellectual content.
65. McCoy IE, Chertow GM, **Chang TI**. Patterns of diuretic use in the intensive care unit. *PLOS ONE*, 2019;14(5):e0217911.
66. **Chang TI**, Liu S, Airy M, Niu J, Turakhia MP, Flythe JE, Montez-Rath ME, Winkelmayer WC. Blood pressure and incident atrial fibrillation in older patients initiating hemodialysis. *CJASN* June 2019, CJN.13511118; DOI: <https://doi.org/10.2215/CJN.13511118>
67. Cheng RZ, Bhalla V, **Chang TI**. Comparison of routine and automated office blood pressure measurement. *Blood Press Monit* 2019, May 20. doi: 10.1097/MBP.0000000000000392.
68. McCoy IE, Montez-Rath ME, Chertow GM, **Chang TI**. Estimated effects of early diuretic use in critical illness. *Crit Care Expl* 2019, in press.
69. Derington CG, Gums TH, Bress AP, Herrick JS, Greene TH, Mora AE, Weintraub WS, Kronish IM, Morisky DE, Trinkley KE, Saseen JJ, Reynolds K, Bates JT, Berlowitz DR, **Chang TI**, Chonchol M, Cushman WC, Foy CG, Herring CT, Katz LA, Krousel-Wood M, Pajewski NM, Tamariz L, King JB for the SPRINT Research Group. Association of total medication burden with intensive and standard blood pressure control and clinical outcomes: A secondary analysis of the Systolic Blood Pressure Intervention Trial (SPRINT). *Hypertension* 2019, in press. *Participated in analysis and interpretation of data and critical revision of the manuscript for important intellectual content.

Other Publications in Peer-Reviewed Journals (23 total)

Review Articles

1. **Chang TI**, Loeken MR. Genotoxicity and Diabetic Embryopathy: Impaired Expression of Developmental Control Genes as a Cause of Defective Morphogenesis. *Seminars in Reproductive Endocrinology* 1999; 17:153-165. PMID: 10528366
2. **Chang TI**. Systolic blood pressure and mortality in patients on hemodialysis. *Curr Hypertens Rep* 2011; 13: 362-369. PMID: 21800233.
3. Hussein WF, **Chang TI**. Visit-to-visit variability of systolic blood pressure and cardiovascular disease. *Curr Hypertens Rep* 2015; 17: 527. PMID 2574319.
4. **Chang TI**. Impact of drugs on intradialytic hypotension: antihypertensives and vasoconstrictors. *Semin Dial*, 2017; 30:532-536. Epub 2017 Jul 5. PMID 28681510.
5. Shroff G, **Chang TI**. Risk stratification and treatment of coronary disease in CKD/ESRD. *Semin Nephrol* 2018; 38: 582-599. PMID 30413253
6. Jakher H, **Chang TI**, Tan M, Mahaffey KW. Canagliflozin review – safety and efficacy profile in patients with T2DM. *Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy* 2019;12 Pages 209-215. DOI <https://doi.org/10.2147/DMSO.S184437>. PMID 30787627.

Editorials

7. **Chang TI**, Chertow GM. GFR estimating equations, CKD prevalence and the public health. *J Intern Med* 2010; 267:354-356. PMID: 20433581.
8. Chertow GM, **Chang TI**. Kidney disease, hospitalized hypertension, and cardiovascular events: cause or consequence? *Circulation* 2010;121(20):2160-1. PMID: 20458007.
9. **Chang TI**, Winkelmayer WC. Kidney disease and antihypertensive medication adherence: the need for improved measurement tools. *Am J Kidney Dis* 2010; 56 (3): 423-426. PMID: 20728787
10. **Chang TI**, Chertow GM. Chronic kidney disease and cardiovascular therapeutics: time to close the evidence gaps. *J Am Coll Cardiol* 2011; 58:1162-1164. PMID: 21884955.
11. Pao AC, **Chang TI**. An experimentum crucis in salt sensitivity. *Am J Physiol Renal Physiol* 2017; 312: F190-F191. Epub 2016 Sep 21. PMID: 27654894.
12. Wang KM, Sirich TL, **Chang TI**. Timing of blood pressure medications and intradialytic hypotension. *Seminars in Dialysis* 2019. Epub Mar 5, 2019. doi:10.1111/sdi.12777. PMID: 30836447.

Commentaries

13. **Chang TI**, Cheung AK, Chertow GM. Blood pressure control in type 2 diabetes mellitus. *Am J Kidney Dis* 2010; 56: 1029-1031. PMID: 20870328.
14. **Chang TI**, Winkelmayr WC. Comparative effectiveness research: What is it and why do we need it in nephrology? *Nephrol Dial Transpl* 2012; 27: 2156-2161. PMID: 22649210.
15. **Chang TI**, Owens DK, Chertow GM. In the literature: lowering blood pressure to lower the risk of cardiovascular events in chronic kidney disease. *Am J Kidney Dis* 2014, 63: 900-2. PMID 24685064.
16. Shen JI, Lum EL, **Chang TI**. Balancing the evidence: how to reconcile the results of observational studies vs. randomized clinical trials in dialysis. *Seminars in Dialysis* 2016; 29: 342-6. PMID: 27207819.
17. **Chang TI**, Sarnak MJ. Intensive blood pressure targets and kidney disease. *Clin J Am Soc Nephrol*, 2018. Epub May 24, 2018. DOI: 10.2215/CJN.02010218. PMID 29798887.
18. Rangaswami J, Bhalla B, Blair JEA, **Chang TI**, Costa S, Lentine KL, Lerma E, Mezue K, Molitch M, Mullens W, Ronco C, Tang WH McCullough PA on behalf of the AHA Council on Kidney in Cardiovascular Disease and Council on Clinical Cardiology. Cardio-renal Syndrome: Classification, Pathophysiology, Diagnosis and Treatment Strategies. A Scientific Statement from the American Heart Association. *Circulation* 2019, Epub March 11, 2019. doi:10.1161/CIR.0000000000000664. PMID 30852913
19. Kramer HJ, Townsend RR, Griffin K, Flynn JT, Weiner DE, Rocco MV, Choi MJ, Weir MR, **Chang TI**, Agarwal R, Beddhu S. KDOQI US Commentary on the ACC/AHA Hypertension Guideline. *Am J Kidney Dis* 2019, 73(4):437-458. PMID 30905361
20. Cheung AK, **Chang TI**, Cushman WC, Furth SL, Ix JH, Pecoits-Filho R, Perkovic V, Sarnak MJ, Tobe SW, Tomson CRV, Cheung M, Wheeler DC, Winkelmayr WC, Mann JFE for Conference Participants. Blood pressure in chronic kidney disease: conclusions from a Kidney Disease: Improving Global Outcomes (KDIGO) Controversies Conference. *Kidney International*. 2019;95(5):1027-1036.

Letters to the Editor

21. **Chang TI**, Reboussin DM, Chertow GM, Cheung AK, Cushman WC, Kostis WJ, Parati G, Riessen E, Shapiro B, Stergiou GS, Tsioufis K, Whelton PK, Whittle J, Wright JT, Papademetriou V. Prognostic relevance of visit-to-visit office blood pressure variability in Systolic Blood Pressure Intervention Trial: Same data, different conclusions? *J Clin Hypertens* 2018 Nov;20(11):1644-1645. doi: 10.1111/jch.13395. Epub 2018 Oct 17. PMID: 30328272
22. Itoga NK, Tawfik DS, Leeper NJ, **Chang TI**. Response to letter regarding "Association of blood pressure measurements with peripheral arterial disease events: A reanalysis of the ALLHAT data". *Circulation*, 2019: 139, 1855-185. PMID 30958720

Conference Participant Proceedings

23. Flythe JE, Narendra JH, Hilliard T, Frazier K, Ikeler K, Amolegbe A, Mitchell D, Dorough A, Lee SYD, Ordish A, Wilkie C, Dember LM for the Building Research Capacity in the Dialysis Community at the Local Level Stakeholder Workshop Participants. Cultivating a Research-Ready Dialysis Community. Journal of the American Society of Nephrology: ASN.2018101059, 2019. PMID 30737271.

Publications in Non-Peer Reviewed Journals (1 total)

1. **Chang TI.** Controversies in blood pressure: management in hemodialysis. Renal and Urology News 2014; Feb 3. <http://www.renalandurologynews.com/controversies-in-blood-pressure-management-in-hemodialysis/article/332215/>

Book Chapters (4 total)

1. **Chang TI, Tamura MK.** Chapter 35: Methods to assess quality of life and functional status and their applications in clinical care in elderly patients with CKD. American Society of Nephrology, Online Geriatric Nephrology Curriculum. 2009, updated 2011. http://www.asn-online.org/education_and_meetings/geriatrics/
2. Tamura MK, **Chang T.** Chapter 10: Cardiometabolic Syndrome. In: Berbari A, Mancia J eds. Cardiorenal Syndrome: Mechanisms, Risk and Treatment. 1st Edition, 2010, 320 p. Milan: Springer. ISBN: 978-88-470-1462-6.
3. Shah RU, **Chang TI, Fonarow GC.** Comparative effectiveness research in heart failure therapies: women, elderly patients, and patients with kidney disease. Heart Fail Clin 2013; 9: 79-92. PMID 23168319.
4. **Chang TI.** Chapter 66: Management of ischemic heart disease, heart failure and pericarditis in hemodialysis patients. In: Nissenson AR, Fine RN eds. Handbook of Dialysis Therapy. 5th Edition, 2015. Philadelphia: Saunders Elsevier.

H. INVITED PRESENTATIONS

Regional Meetings

- | | |
|---|--------------------|
| “Discerning the Scientific Validity of a Clinical Trial”
Satellite Healthcare, Inc., Annual Dietician Meeting, Burlingame, CA | July 15, 2013 |
| “Drug Eluting Stents versus Bare Metal Stents in Patients on Dialysis”
11 th Annual Northwestern Cardiovascular Young Investigators’ Forum,
Chicago, IL | October 17, 2015 |
| “Blood Pressure Management in Chronic Kidney Disease”
National Kidney Foundation Primary Care Workshop: Early Diagnosis and
Management of Chronic Kidney Disease
Foster City, CA | September 23, 2016 |

“Hypertension Management in Hemodialysis” September 23, 2016
National Kidney Foundation 48th Annual Bay Area Medical Symposium
Foster City, CA

National Meetings

“Relation of Predialysis Systolic Blood Pressure with Death in Hemodialysis Patients in the HEMO Study” October 29, 2009
Free Communication Session: Clinical Aspects of Hypertension
American Society of Nephrology Renal Week 2009
San Diego, CA

“Examples of Clinically Impactful PCOR/CER” October 31, 2012
Update in Patient Centered Outcomes Research in Kidney Disease
American Society of Nephrology Kidney Week 2012, San Diego, CA

“Use of TnT and NT pro-BNP to Predict ESRD Progression and CV Events” November 9, 2013
Basic and Clinical Science Symposium
American Society of Nephrology Kidney Week 2013, Atlanta, GA

Discussant: “The Incidence of Kidney Injury for Patients Treated with Intensive versus Less Potent Statin Therapy after an Acute Coronary Syndrome” November 20, 2013
Clinical Science Special Reports: Advanced Cardiovascular Disease: Complications and Challenges
American Heart Association Scientific Sessions 2013, Dallas, TX

“Controversies of Blood Pressure Targets in Dialysis Patients” April 25, 2014
National Kidney Foundation 2014 Spring Clinical Meetings, Las Vegas, NV

“Medication Safety in ESRD: Pharmacoepidemiology Perspective” March 28, 2015
National Kidney Foundation 2015 Spring Clinical Meetings, Dallas, TX

Session Moderator: “Dialysis: Understanding and Decreasing Risk of Cardiovascular Disease” November 7, 2015
American Society of Nephrology Kidney Week 2015, San Diego, CA

“SPRINT – What did this landmark trial show?” April 19, 2017
National Kidney Foundation 2017 Spring Clinical Meetings
Orlando, FL

Session Chair – “Blood Pressure Management Version 2.0” April 21, 2017
National Kidney Foundation 2017 Spring Clinical Meetings
Orlando, FL

“Antihypertensive Medication use in the Transition from CKD to Dialysis” November 3, 2017
Clinical Practice Session
American Society of Nephrology Kidney Week 2017, New Orleans, CA

<p>“BP Variability and Risk of Death, ESRD and Cardiovascular Events in CKD Patients” Clinical Practice Session American Society of Nephrology Kidney Week 2017, New Orleans, CA</p>	<p>November 4, 2017</p>
<p>Session Chair - “Gender Differences in Hypertension” National Kidney Foundation 2018 Spring Clinical Meetings Austin, TX</p>	<p>April 12, 2018</p>
<p>Session Chair - “Please Pass the Salt – or Not? Debate on Sodium Intake” National Kidney Foundation 2018 Spring Clinical Meetings Austin, TX</p>	<p>April 12, 2018</p>
<p>Session Chair - “Hypertension Treatment in the 21st Century” National Kidney Foundation 2018 Spring Clinical Meetings Austin, TX</p>	<p>April 13, 2018</p>
<p>“Drug-Induced Hypertension” American Society of Nephrology Board Review Course & Update Chicago, IL</p>	<p>August 1, 2018</p>
<p>“Hypertension Urgencies and Emergencies” American Society of Nephrology Board Review Course & Update Chicago, IL</p>	<p>August 1, 2018</p>
<p>“Debate – Blood Pressure in CKD – How Low Can You Go?” KIDNEYcon 2019 Little Rock, AR</p>	<p>April 13, 2019</p>
<p>“SPRINT-Kidney” 30th Annual Vascular Biology and Hypertension Symposium Birmingham, AL</p>	<p>May 4, 2019</p>
<p>“Drug-Induced Hypertension” American Society of Nephrology Board Review Course & Update Chicago, IL</p>	<p>July 24, 2019</p>
<p>“Hypertension Urgencies and Emergencies” American Society of Nephrology Board Review Course & Update Chicago, IL</p>	<p>July 24, 2019</p>
<p>International Meetings</p>	
<p>“Blood Pressure in CKD” KDIGO - International Society of Nephrology Webinar</p>	<p>March 9, 2018</p>
<p>“Updates in Hypertension”</p>	<p>September 2019</p>

ASN Highlights, Hangzhou, China

“Blood Pressure Management in CKD: Lessons from SPRINT”
International Society of Nephrology - World Congress of Nephrology
Abu Dhabi, United Arab Emirates

March 29, 2020

Grand Rounds / Visiting Professorships

“Optimizing Cardiovascular Care in CKD”
Renal Grand Rounds
University of Western Ontario, London, ON, Canada.

November 30, 2011

“Optimizing Cardiovascular Care in CKD”
Arbor Research Collaborative for Health, Ann Arbor, MI.

March 27, 2012

“Optimizing Cardiovascular Care in CKD”
Renal Grand Rounds
University of Michigan, Ann Arbor, MI

May 30, 2012

“Blood Pressure Targets in Limbo: How Low Can You Go?”
Department of Medicine Grand Rounds
Stanford University School of Medicine, Palo Alto, CA

January 13, 2016

“Optimizing Cardiovascular Care in CKD”
Renal Grand Rounds
University of California San Francisco, CA

May 4, 2016

“Blood Pressure Targets in CKD”
Medical College of Wisconsin, Division of Cardiology Grand Rounds
Milwaukee, WI

December 1, 2016

“BP Variability in CKD Patients”
Nephrology Grand Rounds / Visiting Professorship
Henry Ford Hospital, Detroit, MI

February 21, 2018

“Blood Pressure Targets in Limbo: How Low Can You Go?”
Medicine Grand Rounds
Santa Clara Valley Medical Center, San Jose, CA

September 7, 2018

CREDESCENCE Trial Results: Diabetes and Chronic Kidney Disease
Medicine Grand Rounds
Stanford University School of Medicine, Palo Alto, CA

May 29, 2019