Tara I. Chang
Associate Professor of Medicine (Nephrology) at the Stanford University Medical Center
Medicine - Nephrology

Bio

BIO
Tara Chang, MD, MS is a board-certified nephrologist who enjoys taking care of patients with all types of kidney diseases. She is also a certified Hypertension Specialist, and has a particular interest in treating patients with high blood pressure. In addition to her patient care duties, Dr. Chang maintains an active clinical research program, which focuses on studying cardiovascular disease in patients with chronic kidney disease. She has received grant funding from the National Institutes of Health and the American Heart Association.

Dr. Chang speaks conversational Mandarin. She enjoys jogging, yoga, and spending time with her husband, son and twin daughters.

Clinical Focus
- Nephrology
- hypertension
- chronic kidney disease
- dialysis

Academic Appointments
- Associate Professor - Med Center Line, Medicine - Nephrology
- Member, Cardiovascular Institute

Administrative Appointments
- Director of Clinical Research, Stanford Division of Nephrology, (2016- present)

Professional Education
- Board Certification: Internal Medicine, American Board of Internal Medicine (2020)
- Board Certification: Nephrology, American Board of Internal Medicine (2020)
- Residency: University of California San Francisco Internal Medicine Residency (2006) CA
CURRENT RESEARCH AND SCHOLARLY INTERESTS

As a board-certified nephrologist, I see first-hand the pervasiveness of cardiovascular disease in patients with chronic kidney disease (CKD). As a trained epidemiologist and clinical researcher, I also see the lack of evidence available to guide treatment decision-making in CKD. Motivated by these evidence gaps, my research seeks to clarify questions about cardiovascular care in patients with CKD. My research specifically focuses on issues such as blood pressure control, coronary revascularization, and the comparative effectiveness of cardioprotective medications in patients with CKD, with the long-term goal of improving outcomes in these high-risk patients.

CLINICAL TRIALS

- CALM-2 - Controlling and Lowering Blood Pressure With the MobiusHD™, Recruiting
- Comparing Diuretic Strategies in Hospitalized Heart Failure, Not Recruiting

Publications

Kidney Case Conference Series: How We Manage Hypertension in a Patient with a Recent Stroke. *Clinical journal of the American Society of Nephrology: CJASN*
Chang, T. I., Bhalla, V.
2020

Blood pressure in chronic kidney disease: conclusions from a Kidney Disease: Improving Global Outcomes (KDIGO) Controversies Conference *KIDNEY INTERNATIONAL*
2019; 95 (5): 1027–36

2019; 73 (4): 437–58

The effects of canagliflozin on heart failure and cardiovascular death by baseline participant characteristics: analysis of the CREДENCE trial *SPRINGER.*2020: S61–S62

Does really central venous pressure affect the risk of diuretic-associated acute kidney injury after cardiac surgery? *American heart journal*
McCoy, I., Montez-Rath, M., Chertow, G., Chang, T.
2020; 226: 252

2020
• A Call for a New Paradigm for Diabetes Care in the Era of Sodium-Glucose Cotransporter2 Inhibitors (SGLT2i). Cardiology and therapy
Kim, S. H., Chang, T. I., Mahaffey, K. W.
2020

• Blood pressure and volume management in dialysis: conclusions from a Kidney Disease: Improving Global Outcomes (KDIGO) Controversies Conference KIDNEY INTERNATIONAL
2020; 97 (5): 861–76

• CANAGLIFLOZIN (CANA) REDUCES CARDIOVASCULAR (CV) AND RENAL EVENTS INDEPENDENT OF BASELINE HEART FAILURE (HF): A CREDENCE SECONDARY ANALYSIS
ELSEVIER SCIENCE INC.2020: 1018

• Outcomes after left ventricular assist device implantation in patients with acute kidney injury JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY
2020; 159 (2): 477-+

• Effect of Intensive Blood Pressure Lowering on the Risk of Atrial Fibrillation. Hypertension (Dallas, Tex. : 1979)
2020; HYPERTENSIONAHA12014766

• Randomized elimination and prolongation of ACE inhibitors and ARBs in coronavirus 2019 (REPLACE COVID) Trial Protocol. Journal of clinical hypertension (Greenwich, Conn.)
2020

• Blood pressure and volume management in dialysis: conclusions from a Kidney Disease: Improving Global Outcomes (KDIGO) Controversies Conference. Kidney international
2020

• Chronic kidney disease and valvular heart disease: conclusions from a Kidney Disease: Improving Global Outcomes (KDIGO) Controversies Conference. Kidney international
2019; 96 (4): 836–49

• Effect of Intensive and Standard Clinic-Based Hypertension Management on the Concordance Between Clinic and Ambulatory Blood Pressure and Blood Pressure Variability in SPRINT. Journal of the American Heart Association
2019; 8 (14): e011706

• Association of Total Medication Burden With Intensive and Standard Blood Pressure Control and Clinical Outcomes: A Secondary Analysis of SPRINT. Hypertension (Dallas, Tex. : 1979)
2019; HYPERTENSIONAHA11912907

• Canagliflozin and Renal Outcomes in Type 2 Diabetes and Nephropathy NEW ENGLAND JOURNAL OF MEDICINE
2019; 380 (24): 2295–2306
• **Comparison of routine and automated office blood pressure measurement.** *Blood pressure monitoring*
  Cheng, R. Z., Bhalla, V., Chang, T. I.
  2019

• **Predialysis Nephrology Care and Incident Atrial Fibrillation in Older Patients With ESKD Initiating Dialysis.** *Kidney international reports*
  Anumudu, S., Airy, M., Erickson, K. F., Navaneethan, S. D., Chang, T. I., Winkelmayer, W. C., Niu, J.
  2019; 4 (5): 679–87

• **Blood pressure in chronic kidney disease: conclusions from a Kidney Disease: Improving Global Outcomes (KDIGO) Controversies Conference.** *Kidney international*
  2019; 95 (5): 1027–36

• **Predialysis Nephrology Care and Incident Atrial Fibrillation in Older Patients With ESKD Initiating Dialysis** *KIDNEY INTERNATIONAL REPORTS*
  Anumudu, S., Airy, M., Erickson, K. F., Navaneethan, S. D., Chang, T., Winkelmayer, W. C., Niu, J.
  2019; 4 (5): 679–87

• **Cardiorenal Syndrome: Classification, Pathophysiology, Diagnosis, and Treatment Strategies A Scientific Statement From the American Heart Association** *CIRCULATION*
  2019; 139 (16): E840–E878

• **Response by Itoga et al to Letter Regarding Article, "Association of Blood Pressure Measurements With Peripheral Arterial Disease Events"** *CIRCULATION*
  Itoga, N. K., Tawfik, D. S., Leeper, N. J., Chang, T. I.
  2019; 139 (15): 1855–56

• **Response by Itoga et al to Letter Regarding Article, "Association of Blood Pressure Measurements With Peripheral Arterial Disease Events".** *Circulation*
  Itoga, N. K., Tawfik, D. S., Leeper, N. J., Chang, T. I.
  2019; 139 (15): 1855–56

• **Outcomes after left ventricular assist device implantation in patients with acute kidney injury.** *The Journal of thoracic and cardiovascular surgery*
  2019

• **Long-Term Changes in Kidney Function after Left Ventricular Assist Device Implant: An Analysis of the STS Intermacs Database**
  ELSEVIER SCIENCE INC.2019: S89–S90

• **Timing of blood pressure medications and intradialytic hypotension.** *Seminars in dialysis*
  Wang, K. M., Sirich, T. L., Chang, T. I.
  2019

• **Central venous pressure and the risk of diuretic-associated acute kidney injury in patients after cardiac surgery.** *American heart journal*
  McCoy, I. E., Montez-Rath, M. E., Chertow, G. M., Chang, T. I.
  2019; 221: 67–73

• **Effect of Intensive and Standard Clinic-Based Hypertension Management on the Concordance Between Clinic and Ambulatory Blood Pressure and Blood Pressure Variability: Systolic Blood Pressure Intervention Trial (SPRINT)**
  LIPPINCOTT WILLIAMS & WILKINS.2019

• **Estimated effects of early diuretic use in critical illness.** *Critical care explorations*
  McCoy, I. E., Montez-Rath, M. E., Chertow, G. M., Chang, T. I.
  2019; 1 (7)

• **Sodium Excretion and Cardiovascular Outcomes in African American Patients With CKD: Findings From the African American Study of Kidney Disease and Hypertension.** *Kidney medicine*
2019; 2 (1): 80–82

- Canagliflozin review - safety and efficacy profile in patients with T2DM. *Diabetes Metabolic Syndrome and Obesity: Targets and Therapy*
  Jakher, H., Chang, T. I., Tan, M., Mahaffey, K. W.

- Canagliflozin review - safety and efficacy profile in patients with T2DM. *Diabetes, metabolic syndrome and obesity: targets and therapy*
  Jakher, H., Chang, T. I., Tan, M., Mahaffey, K. W.

Patterns of diuretic use in the intensive care unit. *PloS one*
McCoy, I. E., Chertow, G. M., Chang, T. I.
2019; 14 (5): e0217911

- Blood Pressure and Incident Atrial Fibrillation in Older Patients Initiating Hemodialysis. *Clinical journal of the American Society of Nephrology: CJASN*
  2019

- Chronic Kidney Disease and Coronary Artery Disease: JACC State-of-the-Art Review. *Journal of the American College of Cardiology*
  2019; 74 (14): 1823–38

Dialysis Modality and Incident Atrial Fibrillation in Older Patients With ESRD. *American journal of kidney diseases: the official journal of the National Kidney Foundation*
2018

- Prognostic relevance of visit-to-visit office blood pressure variability in Systolic Blood Pressure Intervention Trial: Same data, different conclusions? *Journal of clinical hypertension (Greenwich, Conn.)*
  2018; 20 (11): 1644–45

Risk Stratification and Treatment of Coronary Disease in Chronic Kidney Disease and End-Stage Kidney Disease. *Seminars in nephrology*
Shroff, G. R., Chang, T. I.
2018; 38 (6): 582–99

The Relationship between Intradialytic Hypotension and Hospitalized Mesenteric Ischemia: A Case-Control Study. *Clinical journal of the American Society of Nephrology: CJASN*
2018

Association of Blood Pressure Measurements with Peripheral Arterial Disease Events: A Reanalysis of the ALLHAT Data. *Circulation*
2018

Intensive Blood Pressure Targets and Kidney Disease. *Clinical journal of the American Society of Nephrology: CJASN*
Chang, T. I., Sarnak, M. J.
2018

Antihypertensive medication withholding practices in hemodialysis: A survey study of patients and providers. *Hemodialysis international. International Symposium on Home Hemodialysis*
Haase, S. B., Chang, S., Schiller, B., Chertow, G. M., Chang, T. I.
2018

Trends in Rates of Lower Extremity Amputation Among Patients With End-Stage Renal Disease Who Receive Dialysis. *JAMA Internal Medicine*
2018
• Trends in Rates of Lower Extremity Amputation Among Patients With End-stage Renal Disease Who Receive Dialysis. *JAMA internal medicine*
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• Receipt of Nephrology Care and Clinical Outcomes Among Veterans With Advanced CKD *AMERICAN JOURNAL OF KIDNEY DISEASES*
  Fung, E., Chang, T. I., Chertow, G. M., Thomas, I., Asch, S. M., Tamura, M.
  2017; 70 (5): 705–14

• Hospitalizations and Nursing Facility Stays During the Transition from CKD to ESRD on Dialysis: An Observational Study *JOURNAL OF GENERAL INTERNAL MEDICINE*
  2017; 32 (11): 1220–27

• Visit-to-Visit Office Blood Pressure Variability and Cardiovascular Outcomes in SPRINT (Systolic Blood Pressure Intervention Trial) *HYPERTENSION*
  2017; 70 (4): 751-+

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• Associations of Glycemic Control With Cardiovascular Outcomes Among US Hemodialysis Patients With Diabetes Mellitus. *Journal of the American Heart Association*
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• Safety of Intravenous Iron in Hemodialysis: Longer-term Comparisons of Iron Sucrose Versus Sodium Ferric Gluconate Complex. *American journal of kidney diseases*
  Winkelmayer, W. C., Goldstein, B. A., Mitani, A. A., Ding, V. Y., Airy, M., Mandayam, S., Chang, T. I., Brookhart, M. A., Fishbane, S.
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  2017; 30 (2): 281-288

• Drug-Eluting Stents Versus Bare Metal Stents for Percutaneous Coronary Intervention in Kidney Transplant Recipients *TRANSPLANTATION*
  2017; 101 (4): 851-857

• Impact of drugs on intradialytic hypotension: Antihypertensives and vasoconstrictors. *Seminars in dialysis*
  Chang, T. I.
  2017; 30 (6): 532–36

• Risk profiles for acute health events after incident atrial fibrillation in patients with end-stage renal disease on hemodialysis. *Nephrology, dialysis, transplantation : official publication of the European Dialysis and Transplant Association - European Renal Association*
  2017

• An experimentum crucis in salt sensitivity. *American journal of physiology. Renal physiology*
  Pao, A. C., Chang, T. I.
  2017; 312 (1): F190-F191

• Orthostatic changes in systolic blood pressure among SPRINT participants at baseline *JOURNAL OF THE AMERICAN SOCIETY OF HYPERTENSION*
  2016; 10 (11): 847-856

• Balancing the Evidence: How to Reconcile the Results of Observational Studies vs. Randomized Clinical Trials in Dialysis *SEMINARS IN DIALYSIS*

• Antihypertensive Medication Use in Older Patients Transitioning from Chronic Kidney Disease to End-Stage Renal Disease on Dialysis. Clinical journal of the American Society of Nephrology
2016; 11 (8): 1401-1412

• Comparative effectiveness of angiotensin receptor blockers vs. angiotensin-converting enzyme inhibitors on cardiovascular outcomes in patients initiating peritoneal dialysis. Journal of nephrology
2016: -?

• The Association Between Antihypertensive Medication Nonadherence and Visit-to-Visit Variability of Blood Pressure HYPERTENSION
2016; 68 (1): 39-?

• Angiotensin-converting enzyme inhibitor/angiotensin receptor blocker use and cardiovascular outcomes in patients initiating peritoneal dialysis. Nephrology, dialysis, transplantation : official publication of the European Dialysis and Transplant Association - European Renal Association
Shen, J. I., Saxena, A. B., Montez-Rath, M. E., Chang, T. I., Winkelmayer, W. C.
2016

• Drug-Eluting Versus Bare-Metal Stents During PCI in Patients With End-Stage Renal Disease on Dialysis JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY
Chang, T. I., Montez-Rath, M. E., Tsai, T. T., Hlatky, M. A., Winkelmayer, W. C.
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2016; 30 (3): 204-209

• Patterns and Correlates of Baseline Thiazide-Type Diuretic Prescription in the Systolic Blood Pressure Intervention Trial HYPERTENSION
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• Sleep disordered breathing and cardiovascular risk in older patients initiating dialysis in the United States: a retrospective observational study using medicare data BMC Nephrology
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• Visit-to-visit variability of blood pressure and death, end-stage renal disease, and cardiovascular events in patients with chronic kidney disease JOURNAL OF HYPERTENSION
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• Coffee and caffeine consumption and the risk of hypertension in postmenopausal women AMERICAN JOURNAL OF CLINICAL NUTRITION
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• Sleep disordered breathing and cardiovascular risk in older patients initiating dialysis in the United States: a retrospective observational study using medicare data. BMC nephrology


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2014; 3 (5)

- **Acute Kidney Injury After CABG Versus PCI: An Observational Study Using 2 Cohorts.** *Journal of the American College of Cardiology*
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- **The Association of Gender to Cardiovascular Outcomes After Coronary Artery Revascularization in Patients With End-Stage Renal Disease** *CLINICAL CARDIOLOGY*
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- **Beta-blocker therapy and cardiac events among patients with newly diagnosed coronary heart disease.** *Journal of the American College of Cardiology*
  Andersson, C., Shilane, D., Go, A. S., Chang, T. I., Kazi, D., Solomon, M. D., Boothroyd, D. B., Hlatky, M. A.
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- **Comparative Effectiveness of Clopidogrel in Medically Managed Patients With Unstable Angina and Non-ST-Segment Elevation Myocardial Infarction.** *Journal of the American College of Cardiology*
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  Chang, T. I., Flythe, J. E., Brunelli, S. M., Muntner, P., Greene, T., Cheung, A. K., Chertow, G. M.
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