


Stanford



Tara I. Chang

Associate Professor of Medicine (Nephrology) at the Stanford University Medical Center

Medicine - Nephrology

 Curriculum Vitae available Online

CLINICAL OFFICES

- **Kidney Clinic**

300 Pasteur Dr Rm A11

MC 5309

Stanford, CA 94305

Tel (650) 723-6961

Fax (650) 725-8418

ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Jocelyn Hollings - Division Manager

Email hollings@stanford.edu

Tel 650-498-9446

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

- Residency: University of California San Francisco Internal Medicine Residency (2006) CA
- Fellowship: Stanford University Division of Nephrology (2009) CA
- Board Certification: Nephrology, American Board of Internal Medicine (2009)

- Medical Education: University of Michigan Health System (2003) MI

LINKS

- Kidney Clinical Research: <http://med.stanford.edu/kidneyresearch.html>
- Stanford Nephrology: <http://med.stanford.edu/nephrology/education/fellowship.html>

Research & Scholarship

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

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Keon Pearson

Publications

PUBLICATIONS

- **Blood pressure in chronic kidney disease: conclusions from a Kidney Disease: Improving Global Outcomes (KDIGO) Controversies Conference** *KIDNEY INTERNATIONAL*
Cheung, A. K., Chang, T., Cushman, W. C., Furth, S. L., Ix, J. H., Pecoits-Filho, R., Perkovic, V., Sarnak, M. J., Tobe, S. W., Tomson, C. R., Cheung, M., Wheeler, D. C., Winkelmayer, et al
2019; 95 (5): 1027–36
- **KDOQI US Commentary on the 2017 ACC/AHA Hypertension Guideline.** *American journal of kidney diseases : the official journal of the National Kidney Foundation*
Kramer, H. J., Townsend, R. R., Griffin, K., Flynn, J. T., Weiner, D. E., Rocco, M. V., Choi, M. J., Weir, M. R., Chang, T. I., Agarwal, R., Beddhu, S.
2019; 73 (4): 437–58
- **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*
Ghazi, L., Pajewski, N. M., Rifkin, D. E., Bates, J. T., Chang, T. I., Cushman, W. C., Glasser, S. P., Haley, W. E., Johnson, K. C., Kostis, W. J., Papademetriou, V., Rahman, M., Simmons, et al
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)*
Derington, C. G., Gums, T. H., Bress, A. P., Herrick, J. S., Greene, T. H., Moran, A. E., Weintraub, W. S., Kronish, I. M., Morisky, D. E., Trinkley, K. E., Saseen, J. J., Reynolds, K., Bates, et al
2019: HYPERTENSIONAHA11912907
- **Canagliflozin and Renal Outcomes in Type 2 Diabetes and Nephropathy** *NEW ENGLAND JOURNAL OF MEDICINE*

- Perkovic, V., Jardine, M. J., Neal, B., Bompoint, S., Heerspink, H. L., Charytan, D. M., Edwards, R., Agarwal, R., Bakris, G., Bull, S., Cannon, C. P., Capuano, G., Chu, et al
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*
Cheung, A. K., Chang, T. I., Cushman, W. C., Furth, S. L., Ix, J. H., Pecoits-Filho, R., Perkovic, V., Sarnak, M. J., Tobe, S. W., Tomson, C. R., Cheung, M., Wheeler, D. C., Winkelmayer, et al
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*
Rangaswami, J., Bhalla, V., Blair, J. A., Chang, T., Costa, S., Lentine, K. L., Lerma, E., Mezue, K., Molitch, M., Mullens, W., Ronco, C., Tang, W., McCullough, et al
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*
Silver, S. A., Long, J., Zheng, Y., Goldstone, A. B., Franz, D., Chang, T. I., Chertow, G. M.
2019
 - **Long-Term Changes in Kidney Function after Left Ventricular Assist Device Implant: An Analysis of the STS InterMAC Database**
Franz, D. D., Stedman, M. R., Myers, S. L., Naftel, D. C., Silver, S. A., Banerjee, D., Chang, T. I.
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
 - **Blood Pressure and Incident Atrial Fibrillation in Older Patients Initiating Hemodialysis.** *Clinical journal of the American Society of Nephrology : CJASN*
Chang, T. I., Liu, S., Airy, M., Niu, J., Turakhia, M. P., Flythe, J. E., Montez-Rath, M. E., Winkelmayer, W. C.
2019
 - **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)**
Ghazi, L., Pajewski, N. M., Rifkin, D. E., Bates, J. T., Chang, T. I., Cushman, W. C., Glasser, S. P., Haley, W. E., Johnson, K. C., Kostis, W. J., Papademetriou, V., Pinion, M., Rahman, et al
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)

- **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.
2019; 12: 209–15
- **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.
2019; 12: 209–15
- **Patterns of diuretic use in the intensive care unit.** *PloS one*
McCoy, I. E., Chertow, G. M., Chang, T. I.
2019; 14 (5): e0217911
- **Dialysis Modality and Incident Atrial Fibrillation in Older Patients With ESRD.** *American journal of kidney diseases : the official journal of the National Kidney Foundation*
Niu, J., Shah, M. K., Perez, J. J., Airy, M., Navaneethan, S. D., Turakhia, M. P., Chang, T. I., Winkelmayer, W. C.
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.)*
Chang, T. I., Reboussin, D. M., Chertow, G. M., Cheung, A. K., Cushman, W. C., Kostis, W. J., Parati, G., Riessen, E., Shapiro, B., Stergiou, G. S., Tsioufis, K., Whelton, P. K., Whittle, et al
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*
Seong, E. Y., Zheng, Y., Winkelmayer, W. C., Montez-Rath, M. E., Chang, T. I.
2018
- **Association of Blood Pressure Measurements with Peripheral Arterial Disease Events: A Reanalysis of the ALLHAT Data.** *Circulation*
Itoga, N. K., Tawfik, D. S., Lee, C. K., Maruyama, S., Leeper, N. J., Chang, T. I.
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*
Franz, D., Zheng, Y., Leeper, N. J., Chandra, V., Montez-Rath, 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*
Franz, D., Zheng, Y., Leeper, N. J., Chandra, V., Montez-Rath, M., Chang, T. I.
2018
- **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*

- Montez-Rath, M. E., Zheng, Y., Tamura, M., Grubbs, V., Winkelmayr, W. C., Chang, T. I.
2017; 32 (11): 1220–27
- **Visit-to-Visit Office Blood Pressure Variability and Cardiovascular Outcomes in SPRINT (Systolic Blood Pressure Intervention Trial)** *HYPERTENSION*
Chang, T. I., Reboussin, D. M., Chertow, G. M., Cheung, A. K., Cushman, W. C., Kostis, W. J., Parati, G., Raj, D., Riessen, E., Shapiro, B., Stergiou, G. S., Townsend, R. R., Tsioufis, et al
2017; 70 (4): 751-+
 - **Effects of Intensive BP Control in CKD** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Cheung, A. K., Rahman, M., Reboussin, D. M., Craven, T. E., Greene, T., Kimmel, P. L., Cushman, W. C., Hawfield, A. T., Johnson, K. C., Lewis, C. E., Oparil, S., Rocco, M. V., Sink, et al
2017; 28 (9): 2812–23
 - **Associations of Glycemic Control With Cardiovascular Outcomes Among US Hemodialysis Patients With Diabetes Mellitus.** *Journal of the American Heart Association*
Rhee, J. J., Zheng, Y., Montez-Rath, M. E., Chang, T. I., Winkelmayr, W. C.
2017; 6 (6)
 - **Safety of Intravenous Iron in Hemodialysis: Longer-term Comparisons of Iron Sucrose Versus Sodium Ferric Gluconate Complex.** *American journal of kidney diseases*
Winkelmayr, W. C., Goldstein, B. A., Mitani, A. A., Ding, V. Y., Airy, M., Mandayam, S., Chang, T. I., Brookhart, M. A., Fishbane, S.
2017; 69 (6): 771-779
 - **Comparative effectiveness of angiotensin receptor blockers vs. angiotensin-converting enzyme inhibitors on cardiovascular outcomes in patients initiating peritoneal dialysis** *JOURNAL OF NEPHROLOGY*
Shen, J. I., Saxena, A. B., Montez-Rath, M. E., Leng, L., Chang, T. I., Winkelmayr, W. C.
2017; 30 (2): 281-288
 - **Drug-Eluting Stents Versus Bare Metal Stents for Percutaneous Coronary Intervention in Kidney Transplant Recipients** *TRANSPLANTATION*
Lenihan, C. R., Montez-Rath, M. E., Winkelmayr, W. C., Chang, T. I.
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*
Airy, M., Chang, T. I., Ding, V. Y., Goldstein, B. A., Bansal, N., Niu, J., Navaneethan, S. D., Turakhia, M. P., Winkelmayr, W. C.
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*
Townsend, R. R., Chang, T. I., Cohen, D. L., Cushman, W. C., Evans, G. W., Glasser, S. P., Haley, W. E., Olney, C., Oparil, S., Del Pinto, R., Pisoni, R., Taylor, A. A., Umanath, et al
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*
Shen, J. I., Lum, E. L., Chang, T. I.
2016; 29 (5): 342-346
 - **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*
Chang, T. I., Zheng, Y., Montez-Rath, M. E., Winkelmayr, W. C.
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*

- Shen, J. I., Saxena, A. B., Montez-Rath, M. E., Leng, L., Chang, T. I., Winkelmayr, W. C.
2016: -?
- **The Association Between Antihypertensive Medication Nonadherence and Visit-to-Visit Variability of Blood Pressure** *HYPERTENSION*
Kronish, I. M., Lynch, A. I., Oparil, S., Whittle, J., Davis, B. R., Simpson, L. M., Krousel-Wood, M., Cushman, W. C., Chang, T. I., Muntner, P.
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., Winkelmayr, 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., Winkelmayr, W. C.
2016; 67 (12): 1459-1469
 - **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., Winkelmayr, W. C.
2016; 67 (12): 1459-1469
 - **The effects of cinacalcet on blood pressure, mortality and cardiovascular endpoints in the EVOLVE trial** *JOURNAL OF HUMAN HYPERTENSION*
Chang, T. I., AbdAlla, S., London, G. M., Block, G. A., Correa-Rotter, R., Drueeke, T. B., Floege, J., Herzog, C. A., Mahaffey, K. W., Moe, S. M., Parfrey, P. S., Wheeler, D. C., Dehmel, et al
2016; 30 (3): 204-209
 - **Patterns and Correlates of Baseline Thiazide-Type Diuretic Prescription in the Systolic Blood Pressure Intervention Trial** *HYPERTENSION*
Chang, T. I., Evans, G., Cheung, A. K., Cushman, W. C., Diamond, M. J., Dwyer, J. P., Huan, Y., Kitzman, D., Kostis, J. B., Oparil, S., Rastogi, A., Roumie, C. L., Sahay, et al
2016; 67 (3): 550-555
 - **Sleep disordered breathing and cardiovascular risk in older patients initiating dialysis in the United States: a retrospective observational study using medicare data** *BMC NEPHROLOGY*
Tuohy, C. V., Montez-Rath, M. E., Turakhia, M., Chang, T. I., Winkelman, J. W., Winkelmayr, W. C.
2016; 17
 - **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*
Chang, T. I., Tabada, G. H., Yang, J., Tan, T. C., Go, A. S.
2016; 34 (2): 244-252
 - **Coffee and caffeine consumption and the risk of hypertension in postmenopausal women** *AMERICAN JOURNAL OF CLINICAL NUTRITION*
Rhee, J. J., Qin, F., Hedlin, H. K., Chang, T. I., Bird, C. E., Zaslavsky, O., Manson, J. E., Stefanick, M. L., Winkelmayr, W. C.
2016; 103 (1): 210-217
 - **Coffee and caffeine consumption and the risk of hypertension in postmenopausal women.** *The American journal of clinical nutrition*
Rhee, J. J., Qin, F., Hedlin, H. K., Chang, T. I., Bird, C. E., Zaslavsky, O., Manson, J. E., Stefanick, M. L., Winkelmayr, W. C.
2016; 103 (1): 210-17
 - **Sleep disordered breathing and cardiovascular risk in older patients initiating dialysis in the United States: a retrospective observational study using medicare data.** *BMC nephrology*
Tuohy, C. V., Montez-Rath, M. E., Turakhia, M., Chang, T. I., Winkelman, J. W., Winkelmayr, W. C.
2016; 17: 16
 - **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 (Dallas, Tex. : 1979)*
Kronish, I. M., Lynch, A. I., Oparil, S., Whittle, J., Davis, B. R., Simpson, L. M., Krousel-Wood, M., Cushman, W. C., Chang, T. I., Muntner, P.
2016; 68 (1): 39-45
 - **Medication adherence and visit-to-visit variability of systolic blood pressure in African Americans with chronic kidney disease in the AASK trial** *JOURNAL OF HUMAN HYPERTENSION*

- Hong, K., Muntner, P., Kronish, I., Shilane, D., Chang, T. I.
2016; 30 (1): 73-78
- **Comparative outcomes of predominant facility-level use of ferumoxytol versus other intravenous iron formulations in incident hemodialysis patients** *NEPHROLOGY DIALYSIS TRANSPLANTATION*
Airy, M., Mandayam, S., Mitani, A. A., Chang, T. I., Ding, V. Y., Brookhart, M. A., Goldstein, B. A., Winkelmayer, W. C.
2015; 30 (12): 2068-2075
 - **Outcomes After Warfarin Initiation in a Cohort of Hemodialysis Patients With Newly Diagnosed Atrial Fibrillation.** *American journal of kidney diseases*
Shen, J. I., Montez-Rath, M. E., Lenihan, C. R., Turakhia, M. P., Chang, T. I., Winkelmayer, W. C.
2015; 66 (4): 677-688
 - **Classifying individuals based on a densely captured sequence of vital signs: An example using repeated blood pressure measurements during hemodialysis treatment** *JOURNAL OF BIOMEDICAL INFORMATICS*
Goldstein, B. A., Chang, T. I., Winkelmayer, W. C.
2015; 57: 219-224
 - **Longer-term Outcomes of Darbeoetin Alfa Versus Epoetin Alfa in Patients With ESRD Initiating Hemodialysis: A Quasi-experimental Cohort Study** *AMERICAN JOURNAL OF KIDNEY DISEASES*
Winkelmayer, W. C., Chang, T. I., Mitani, A. A., Wilhelm-Leen, E. R., Ding, V., Chertow, G. M., Brookhart, M. A., Goldstein, B. A.
2015; 66 (1): 106-113
 - **Coronary artery bypass graft type and outcomes in maintenance dialysis.** *journal of cardiovascular surgery*
Shilane, D., Hlatky, M. A., Winkelmayer, W. C., Chang, T. I.
2015; 56 (3): 463-471
 - **Association of Spontaneous Bleeding and Myocardial Infarction With Long-Term Mortality After Percutaneous Coronary Intervention** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Kazi, D. S., Leong, T. K., Chang, T. I., Solomon, M. D., Hlatky, M. A., Go, A. S.
2015; 65 (14): 1411-1420
 - **Visit-to-Visit Variability of Systolic Blood Pressure and Cardiovascular Disease** *CURRENT HYPERTENSION REPORTS*
Hussein, W. F., Chang, T. I.
2015; 17 (4)
 - **Correlates and outcomes of warfarin initiation in kidney transplant recipients newly diagnosed with atrial fibrillation.** *Nephrology, dialysis, transplantation : official publication of the European Dialysis and Transplant Association - European Renal Association*
Lenihan, C. R., Montez-Rath, M. E., Shen, J. I., Scandling, J. D., Turakhia, M. P., Chang, T. I., Winkelmayer, W. C.
2015; 30 (2): 321-329
 - **Use of novel oral anticoagulants in patients with end-stage renal disease** *HEMODIALYSIS INTERNATIONAL*
Winkelmayer, W. C., Herzog, C. A., Montez-Rath, M. E., Chang, T. I., Chertow, G. M.
2015; 19 (1): 150-53
 - **Thienopyridine use after coronary stenting in low income patients enrolled in medicare part D receiving maintenance dialysis.** *Journal of the American Heart Association*
Chang, T. I., Montez-Rath, M. E., Shen, J. I., Solomon, M. D., Chertow, G. M., Winkelmayer, W. C.
2014; 3 (5)
 - **Thienopyridine use after coronary stenting in low income patients enrolled in medicare part D receiving maintenance dialysis.** *Journal of the American Heart Association*
Chang, T. I., Montez-Rath, M. E., Shen, J. I., Solomon, M. D., Chertow, G. M., Winkelmayer, W. C.
2014; 3 (5)
 - **Acute Kidney Injury After CABG Versus PCI: An Observational Study Using 2 Cohorts.** *Journal of the American College of Cardiology*
Chang, T. I., Leong, T. K., Boothroyd, D. B., Hlatky, M. A., Go, A. S.
2014; 64 (10): 985-994
 - **The Association of Gender to Cardiovascular Outcomes After Coronary Artery Revascularization in Patients With End-Stage Renal Disease** *CLINICAL CARDIOLOGY*
Krishnaswami, A., Chang, T. I., Jang, J. J., Leong, T. K., Go, A. S.

2014; 37 (9): 546-551

- **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.
2014; 64 (3): 247-252
- **Temporal trends in mortality after coronary artery revascularization in patients with end-stage renal disease.** *The Permanente journal*
Krishnaswami, A., Leong, T. K., Hlatky, M. A., Chang, T. I., Go, A. S.
2014; 18 (3): 11-16
- **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*
Solomon, M. D., Go, A. S., Shilane, D., Boothroyd, D. B., Leong, T. K., Kazi, D. S., Chang, T. I., Hlatky, M. A.
2014; 63 (21): 2249-2257
- **Lowering Blood Pressure to Lower the Risk of Cardiovascular Events in CKD** *AMERICAN JOURNAL OF KIDNEY DISEASES*
Chang, T. I., Owens, D. K., Chertow, G. M.
2014; 63 (6): 900-902
- **Near-Term Prediction of Sudden Cardiac Death in Older Hemodialysis Patients Using Electronic Health Records** *CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Goldstein, B. A., Chang, T. I., Mitani, A. A., Assimes, T. L., Winkelmayr, W. C.
2014; 9 (1): 82-91
- **Visit-to-visit systolic blood pressure variability and outcomes in hemodialysis** *JOURNAL OF HUMAN HYPERTENSION*
Chang, T. I., Flythe, J. E., Brunelli, S. M., Muntner, P., Greene, T., Cheung, A. K., Chertow, G. M.
2014; 28 (1): 18-24
- **Contemporary Incidence, Predictors, and Outcomes of Acute Kidney Injury in Patients Undergoing Percutaneous Coronary Interventions** *JACC-CARDIOVASCULAR INTERVENTIONS*
Tsai, T. T., Patel, U. D., Chang, T. I., Kennedy, K. F., Masoudi, F. A., Matheny, M. E., Kosiborod, M., Amin, A. P., Messenger, J. C., Rumsfeld, J. S., Spertus, J. A.
2014; 7 (1): 1-9
- **Incremental prognostic information from kidney function in patients with new onset coronary heart disease** *AMERICAN HEART JOURNAL*
Hlatky, M. A., Shilane, D., Chang, T. I., Boothroyd, D., Go, A. S.
2014; 167 (1): 86-92
- **Multivessel coronary revascularization and outcomes in kidney transplant recipients.** *Transplant international*
Lenihan, C. R., Montez-Rath, M. E., Winkelmayr, W. C., Chang, T. I.
2013; 26 (11): 1080-1087
- **Use and safety of heparin-free maintenance hemodialysis in the USA** *NEPHROLOGY DIALYSIS TRANSPLANTATION*
Shen, J. I., Mitani, A. A., Chang, T. I., Winkelmayr, W. C.
2013; 28 (6): 1589-1602
- **Association of Intradialytic Blood Pressure Variability With Increased All-Cause and Cardiovascular Mortality in Patients Treated With Long-term Hemodialysis** *AMERICAN JOURNAL OF KIDNEY DISEASES*
Flythe, J. E., Inrig, J. K., Shafi, T., Chang, T. I., Cape, K., Dinesh, K., Kunaparaju, S., Brunelli, S. M.
2013; 61 (6): 966-974
- **Comparative effectiveness of multivessel coronary bypass surgery and multivessel percutaneous coronary intervention: a cohort study.** *Annals of internal medicine*
Hlatky, M. A., Boothroyd, D. B., Baker, L., Kazi, D. S., Solomon, M. D., Chang, T. I., Shilane, D., Go, A. S.
2013; 158 (10): 727-734
- **Comparative effectiveness of coronary artery bypass grafting and percutaneous coronary intervention for multivessel coronary disease in a community-based population with chronic kidney disease.** *American heart journal*
Chang, T. I., Leong, T. K., Kazi, D. S., Lee, H. S., Hlatky, M. A., Go, A. S.
2013; 165 (5): 800-808 e2
- **Risk Factors for ESRD in Individuals With Preserved Estimated GFR With and Without Albuminuria: Results From the Kidney Early Evaluation Program (KEEP)** *AMERICAN JOURNAL OF KIDNEY DISEASES*

- Chang, T. I., Li, S., Chen, S., Peralta, C. A., Shlipak, M. G., Fried, L. F., Whaley-Connell, A. T., McCullough, P. A., Tamura, M. K.
2013; 61 (4): S4-S11
- **Effectiveness of beta-Blockers in Heart Failure With Left Ventricular Systolic Dysfunction and Chronic Kidney Disease** *JOURNAL OF CARDIAC FAILURE*
Chang, T. I., Yang, J., Freeman, J. V., Hlatky, M. A., Go, A. S.
2013; 19 (3): 176-182
 - **Comparative Effectiveness Research in Heart Failure Therapies Women, Elderly Patients, and Patients with Kidney Disease** *HEART FAILURE CLINICS*
Shah, R. U., Chang, T. I., Fonarow, G. C.
2013; 9 (1): 79-?
 - **Visit-to-visit systolic blood pressure variability and outcomes in hemodialysis.** *Journal of human hypertension*
Chang, T. I., Flythe, J. E., Brunelli, S. M., Muntner, P., Greene, T., Cheung, A. K., Chertow, G. M.
2013
 - **Multivessel Coronary Artery Bypass Grafting Versus Percutaneous Coronary Intervention in ESRD** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Chang, T. I., Shilane, D., Kazi, D. S., Montez-Rath, M. E., Hlatky, M. A., Winkelmayer, W. C.
2012; 23 (12): 2042-2049
 - **Preoperative Statin Use and Postoperative Acute Kidney Injury** *AMERICAN JOURNAL OF MEDICINE*
Brunelli, S. M., Waikar, S. S., Bateman, B. T., Chang, T. I., Lii, J., Garg, A. X., Winkelmayer, W. C., Choudhry, N. K.
2012; 125 (12): 1195-?
 - **Comparative effectiveness research: what is it and why do we need it in nephrology?** *NEPHROLOGY DIALYSIS TRANSPLANTATION*
Chang, T. I., Winkelmayer, W. C.
2012; 27 (6): 2156-2161
 - **Use of Secondary Prevention Medications among Adults with Reduced Kidney Function** *CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Chang, T. I., Gao, L., Brown, T. M., Safford, M. M., Judd, S. E., McClellan, W. M., Limdi, N. A., Muntner, P., Winkelmayer, W. C.
2012; 7 (4): 604-611
 - **Blood Pressure Components and End-stage Renal Disease in Persons With Chronic Kidney Disease The Kidney Early Evaluation Program (KEEP)** *ARCHIVES OF INTERNAL MEDICINE*
Peralta, C. A., Norris, K. C., Li, S., Chang, T. I., Tamura, M. K., Jolly, S. E., Bakris, G., McCullough, P. A., Shlipak, M.
2012; 172 (1): 41-47
 - **Systolic Blood Pressure and Mortality in Patients on Hemodialysis** *CURRENT HYPERTENSION REPORTS*
Chang, T. I.
2011; 13 (5): 362-369
 - **Chronic Kidney Disease and Cardiovascular Therapeutics Time to Close the Evidence Gaps** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Chang, T. I., Chertow, G. M.
2011; 58 (11): 1162-1164
 - **Angiotensin-converting enzyme inhibitors and cardiovascular outcomes in patients on maintenance hemodialysis** *AMERICAN HEART JOURNAL*
Chang, T. I., Shilane, D., Brunelli, S. M., Cheung, A. K., Chertow, G. M., Winkelmayer, W. C.
2011; 162 (2): 324-330
 - **Angiotensin Converting Enzyme Inhibitors in Hemodialysis**
Chang, T. I., Shilane, D., Brunelli, S. M., Cheung, A. K., Chertow, G. M., Winkelmayer, W. C.
WILEY PERIODICALS, INC.2011: S15-S15
 - **Intradialytic Hypotension and Vascular Access Thrombosis** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Chang, T. I., Paik, J., Greene, T., Desai, M., Bech, F., Cheung, A. K., Chertow, G. M.
2011; 22 (8): 1526-1533
 - **Kidney Function and Long-Term Medication Adherence after Myocardial Infarction in the Elderly** *CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*

-
- Chang, T. I., Desai, M., Solomon, D. H., Winkelmayr, W. C.
2011; 6 (4): 864-869
- **Systolic blood pressure and mortality in prevalent haemodialysis patients in the HEMO study** *JOURNAL OF HUMAN HYPERTENSION*
Chang, T. I., Friedman, G. D., Cheung, A. K., Greene, T., Desai, M., Chertow, G. M.
2011; 25 (2): 98-105
 - **Blood Pressure Control in Type 2 Diabetes Mellitus** *AMERICAN JOURNAL OF KIDNEY DISEASES*
Chang, T. I., Cheung, A. K., Chertow, G. M.
2010; 56 (6): 1029-1031
 - **Updated comorbidity assessments and outcomes in prevalent hemodialysis patients** *HEMODIALYSIS INTERNATIONAL*
Chang, T. I., Paik, J., Greene, T., Miskulin, D. C., Chertow, G. M.
2010; 14 (4): 478-485
 - **Kidney Disease and Antihypertensive Medication Adherence: The Need for Improved Measurement Tools** *AMERICAN JOURNAL OF KIDNEY DISEASES*
Chang, T. I., Winkelmayr, W. C.
2010; 56 (3): 423-426
 - **Kidney Disease, Hospitalized Hypertension, and Cardiovascular Events: Cause or Consequence?** *CIRCULATION*
Chertow, G. M., Chang, T. I.
2010; 121 (20): 2160-2161
 - **GFR estimating equations, CKD prevalence and the public health** *JOURNAL OF INTERNAL MEDICINE*
Chang, T. I., Chertow, G. M.
2010; 267 (4): 354-356
 - **Oxidant regulation of gene expression and neural tube development: Insights gained from diabetic pregnancy on molecular causes of neural tube defects** *DIABETOLOGIA*
Chang, T. I., Horal, M., Jain, S. K., Wang, F., Patel, R., Loeken, M. R.
2003; 46 (4): 538-545
 - **Evidence that elevated glucose causes altered gene expression, apoptosis, and neural tube defects in a mouse model of diabetic pregnancy** *DIABETES*
Fine, E. L., Horal, M., Chang, T. I., Fortin, G., Loeken, M. R.
1999; 48 (12): 2454-2462
 - **Genotoxicity and diabetic embryopathy: Impaired expression of developmental control genes as a cause of defective morphogenesis** *SEMINARS IN REPRODUCTIVE ENDOCRINOLOGY*
Chang, T. I., Loeken, M. R.
1999; 17 (2): 153-165