

Stanford



Timothy Meyer

Stanford University Professor of Nephrology, Emeritus

Medicine - Nephrology

 NIH Biosketch available Online

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Medicine - Nephrology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Faculty Fellow, Sarafan ChEM-H

ADMINISTRATIVE APPOINTMENTS

- Assistant Professor of Medicine, Stanford, (1984-1992)
- Associate Professor of Medicine, Stanford, (1992-2001)
- Professor of Medicine, Stanford, (2001- present)

PROFESSIONAL EDUCATION

- MD, Harvard , Medicine (1975)
- BA, Harvard College , Chemistry (1971)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Inadequate removal of uremic solutes contributes to widespread illness in the more than 500,000 Americans maintained on dialysis. But we know remarkably little about these solutes. Dr. Meyer's research efforts are focused on identifying which uremic solutes are toxic, how these solutes are made, and how their production could be decreased or their removal could be increased. We should be able to improve treatment if we knew more about what we are trying to remove.

CLINICAL TRIALS

- Increasing the Removal of Protein-Bound Solutes During Extended Hours Hemodialysis, Recruiting
- Dietary Maneuvers to Reduce Production of Colon-Derived Uremic Solutes, Not Recruiting

Publications

PUBLICATIONS

- **Impact of a 7-day homogeneous diet on interpersonal variation in human gut microbiomes and metabolomes.** *Cell host & microbe*
Guthrie, L., Spencer, S. P., Perelman, D., Van Treuren, W., Han, S., Yu, F. B., Sonnenburg, E. D., Fischbach, M. A., Meyer, T. W., Sonnenburg, J. L.
2022

- **Improving Solute Clearances by Hemodialysis.** *Blood purification*
Lee, S., Sirich, T. L., Meyer, T. W.
2022; 1-12
- **Barriers to Reducing Hemodialysis Time and Frequency in Patients with Residual Kidney Function.** *Journal of the American Society of Nephrology : JASN*
Meyer, T. W., Blanco, I. J., Grimm, J. C., Leypoldt, J. K., Sirich, T. L.
2021; 32 (9): 2112-2116
- **Impaired Tubular Secretion of Organic Solutes in Advanced CKD.** *Journal of the American Society of Nephrology : JASN*
Mair, R., Lee, S., Plummer, N., Sirich, T., Meyer, T.
2021
- **Association of Plasma Uremic Solute Levels with Residual Kidney Function in Children on Peritoneal Dialysis.** *Clinical journal of the American Society of Nephrology : CJASN*
Ganesan, L., O'Brien, F., Sirich, T., Plummer, N., Sheth, R., Fajardo, C., Brakeman, P., Sutherland, S., Meyer, T.
2021
- **Improving Clearance for Renal Replacement Therapy.** *Kidney360*
Lee, S., Sirich, T. L., Meyer, T. W.
2021; 2 (7): 1188-1195
- **Precision medicine in transplantation and hemodialysis.** *Nephrology, dialysis, transplantation : official publication of the European Dialysis and Transplant Association - European Renal Association*
Oberbauer, R., Meyer, T. W.
2021; 36 (Supplement_2): 31-36
- **Metabolomic analysis of uremic pruritus in patients on hemodialysis.** *PloS one*
Bolanos, C. G., Pham, N. M., Mair, R. D., Meyer, T. W., Sirich, T. L.
2021; 16 (2): e0246765
- **Impaired Tubular Secretion of Organic Solutes in Acute Kidney Injury.** *Kidney360*
O'Brien, F. J., Mair, R. D., Plummer, N. S., Meyer, T. W., Sutherland, S. M., Sirich, T. L.
2020; 1 (8): 724-730
- **Contribution of 'clinically negligible' residual kidney function to clearance of uremic solutes** *NEPHROLOGY DIALYSIS TRANSPLANTATION*
Toth-Manikowski, S. M., Sirich, T. L., Meyer, T. W., Hostetter, T. H., Hwang, S., Plummer, N. S., Hai, X., Coresh, J., Powe, N. R., Shafi, T.
2020; 35 (5): 846-53
- **Twice-Weekly Hemodialysis Is an Option for Many Patients in Times of Dialysis Unit Stress.** *Journal of the American Society of Nephrology : JASN*
Meyer, T. W., Hostetter, T. H., Watnick, S.
2020
- **The Uremic Syndrome** *CHRONIC RENAL DISEASE, 2ND EDITION*
Dobre, M. A., Meyer, T. W., Hostetter, T. H., Kimmel, P. L., Rosenberg, M. E.
2020: 199-210
- **Why Is the GFR So High? Implications for the Treatment of Kidney Failure.** *Clinical journal of the American Society of Nephrology : CJASN*
Meyer, T. W., Hostetter, T. H.
2020
- **Accumulation of Uremic Solutes in the Cerebrospinal Fluid in Experimental Acute Renal Failure.** *American journal of physiology. Renal physiology*
Mair, R. D., Nguyen, H., Huang, T., Plummer, N. S., Sirich, T. L., Meyer, T. W.
2019
- **Contribution of 'clinically negligible' residual kidney function to clearance of uremic solutes.** *Nephrology, dialysis, transplantation : official publication of the European Dialysis and Transplant Association - European Renal Association*
Toth-Manikowski, S. M., Sirich, T. L., Meyer, T. W., Hostetter, T. H., Hwang, S., Plummer, N. S., Hai, X., Coresh, J., Powe, N. R., Shafi, T.
2019
- **Plasma pseudouridine levels reflect body size in children on hemodialysis.** *Pediatric nephrology (Berlin, Germany)*

O'Brien, F. J., Sirich, T. L., Taussig, A. n., Fung, E. n., Ganesan, L. L., Plummer, N. S., Brakeman, P. n., Sutherland, S. M., Meyer, T. W.
2019

- **Inflammation and Immunity Pathways Regulate Genetic Susceptibility to Diabetic Nephropathy** *DIABETES*
Gurley, S. B., Ghosh, S., Johnson, S. A., Azushima, K., Sakban, R., George, S. E., Maeda, M., Meyer, T. W., Coffman, T. M.
2018; 67 (10): 2096–2106
- **Characteristics of Colon-Derived Uremic Solutes** *CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Mair, R. D., Sirich, T. L., Plummer, N. S., Meyer, T. W.
2018; 13 (9): 1398–1404
- **Characteristics of Colon-Derived Uremic Solutes.** *Clinical journal of the American Society of Nephrology : CJASN*
Mair, R. D., Sirich, T. L., Plummer, N. S., Meyer, T. W.
2018
- **Uremic Toxin Clearance and Cardiovascular Toxicities.** *Toxins*
Mair, R. D., Sirich, T. L., Meyer, T. W.
2018; 10 (6)
- **Uremic Toxin Clearance and Cardiovascular Toxicities** *TOXINS*
Mair, R. D., Sirich, T. L., Meyer, T. W.
2018; 10 (6)
- **Intensive Hemodialysis Fails to Reduce Plasma Levels of Uremic Solutes** *CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Sirich, T. L., Meyer, T. W.
2018; 13 (3): 361–62
- **Residual Function Effectively Controls Plasma Concentrations of Secreted Solutes in Patients on Twice Weekly Hemodialysis.** *Journal of the American Society of Nephrology : JASN*
Leong, S. C., Sao, J. N., Taussig, A. n., Plummer, N. S., Meyer, T. W., Sirich, T. L.
2018
- **Untargeted mass spectrometry discloses plasma solute levels poorly controlled by hemodialysis** *PLOS ONE*
Sirich, T. L., Aronov, P. A., Fullman, J., Khanh Nguyen, Plummer, N. S., Meyer, T. W.
2017; 12 (11): e0188315
- **The Effect of Uremic Solutes on the Organic Cation Transporter 2** *JOURNAL OF PHARMACEUTICAL SCIENCES*
Cheung, K., Hsueh, C., Zhao, P., Meyer, T. W., Zhang, L., Huang, S., Giacomini, K. M.
2017; 106 (9): 2551–57
- **Serum Asymmetric and Symmetric Dimethylarginine and Morbidity and Mortality in Hemodialysis Patients** *AMERICAN JOURNAL OF KIDNEY DISEASES*
Shafi, T., Hostetter, T. H., Meyer, T. W., Hwang, S., Hai, X., Melamed, M. L., Banerjee, T., Coresh, J., Powe, N. R.
2017; 70 (1): 48–58
- **Manipulating the microbiome** *KIDNEY INTERNATIONAL*
Sirich, T. L., Meyer, T. W.
2017; 91 (2): 274–76
- **Vascular Access for Hemodialysis and Value-Based Purchasing for ESRD** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Mehrotra, R., Cheung, A. K., Meyer, T., Nath, K. A.
2017; 28 (2): 395–97
- **Free and total p-cresol sulfate levels and infectious hospitalizations in hemodialysis patients in CHOICE and HEMO** *MEDICINE*
Banerjee, T., Meyer, T. W., Shafi, T., Hostetter, T. H., Melamed, M., Zhu, Y., Powe, N. R.
2017; 96 (6): e5799
- **Limited reduction in uremic solute concentrations with increased dialysis frequency and time in the Frequent Hemodialysis Network Daily Trial.** *Kidney international*
Sirich, T. L., Fong, K., Larive, B., Beck, G. J., Chertow, G. M., Levin, N. W., Klinger, A. S., Plummer, N. S., Meyer, T. W.
2017

- **Trimethylamine N-Oxide and Cardiovascular Events in Hemodialysis Patients** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Shafi, T., Powe, N. R., Meyer, T. W., Hwang, S., Hai, X., Melamed, M. L., Banerjee, T., Coresh, J., Hostetter, T. H.
2017; 28 (1): 321–31
- **Modulation of a Circulating Uremic Solute via Rational Genetic Manipulation of the Gut Microbiota** *CELL HOST & MICROBE*
Devlin, A. S., Marcobal, A., Dodd, D., Nayfach, S., Plummer, N., Meyer, T., Pollard, K. S., Sonnenburg, J. L., Fischbach, M. A.
2016; 20 (6): 709-715
- **Can twice weekly hemodialysis expand patient access under resource constraints?** *Hemodialysis international. International Symposium on Home Hemodialysis*
Savla, D., Chertow, G. M., Meyer, T., Anand, S.
2016
- **Kt/Vurea and Nonurea Small Solute Levels in the Hemodialysis Study.** *Journal of the American Society of Nephrology*
Meyer, T. W., Sirich, T. L., Fong, K. D., Plummer, N. S., Shafi, T., Hwang, S., Banerjee, T., Zhu, Y., Powe, N. R., Hai, X., Hostetter, T. H.
2016; 27 (11): 3469-3478
- **More Dialysis Has Not Proven Much Better.** *Seminars in dialysis*
O'Brien, F. J., Fong, K. D., Sirich, T. L., Meyer, T. W.
2016; 29 (6): 481-490
- **Identification and Quantitative Assessment of Uremic Solutes as Inhibitors of Renal Organic Anion Transporters, OAT1 and OAT3.** *Molecular pharmaceuticals*
Hsueh, C., Yoshida, K., Zhao, P., Meyer, T. W., Zhang, L., Huang, S., Giacomini, K. M.
2016; 13 (9): 3130-3140
- **Effect of a sustained difference in hemodialytic clearance on the plasma levels of p-cresol sulfate and indoxyl sulfate** *NEPHROLOGY DIALYSIS TRANSPLANTATION*
Camacho, O., Rosales, M. C., Shafi, T., Fullman, J., Plummer, N. S., Meyer, T. W., Sirich, T. L.
2016; 31 (8): 1335-1341
- **Tubular Secretion in CKD** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Suchy-Dacey, A. M., Laha, T., Hoofnagle, A., Newitt, R., Sirich, T. L., Meyer, T. W., Thummel, K. E., Yanez, N. D., Himmelfarb, J., Weiss, N. S., Kestenbaum, B. R.
2016; 27 (7): 2148-2155
- **Mechanism of Prominent Trimethylamine Oxide (TMAO) Accumulation in Hemodialysis Patients.** *PloS one*
Hai, X., Landeras, V., Dobre, M. A., DeOreo, P., Meyer, T. W., Hostetter, T. H.
2015; 10 (12): e0143731
- **Mechanism of Prominent Trimethylamine Oxide (TMAO) Accumulation in Hemodialysis Patients** *PLOS ONE*
Hai, X., Landeras, V., Dobre, M. A., DeOreo, P., Meyer, T. W., Hostetter, T. H.
2015; 10 (12)
- **An Enlarged Profile of Uremic Solutes** *PLOS ONE*
Tanaka, H., Sirich, T. L., Plummer, N. S., Weaver, D. S., Meyer, T. W.
2015; 10 (8)
- **An Enlarged Profile of Uremic Solutes.** *PloS one*
Tanaka, H., Sirich, T. L., Plummer, N. S., Weaver, D. S., Meyer, T. W.
2015; 10 (8): e0135657
- **Free Levels of Selected Organic Solutes and Cardiovascular Morbidity and Mortality in Hemodialysis Patients: Results from the Retained Organic Solutes and Clinical Outcomes (ROSCO) Investigators** *PLOS ONE*
Shafi, T., Meyer, T. W., Hostetter, T. H., Melamed, M. L., Parekh, R. S., Hwang, S., Banerjee, T., Coresh, J., Powe, N. R.
2015; 10 (5): e0126048
- **Uremic Solutes Produced by Colon Microbes** *BLOOD PURIFICATION*
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- **The Uremic Syndrome** *CHRONIC RENAL DISEASE*
Dobre, M. A., Meyer, T. W., Hostetter, T. H., Kimmel, P. L., Rosenberg, M. E.
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- **Glomerular Effects of Age and APOL1.** *Journal of the American Society of Nephrology : JASN*
Meyer, T. W., Lenihan, C. R.
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- **Approaches to Uremia** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Meyer, T. W., Hostetter, T. H.
2014; 25 (10): 2151-2158
- **Effect of Increasing Dietary Fiber on Plasma Levels of Colon-Derived Solutes in Hemodialysis Patients** *CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Sirich, T. L., Plummer, N. S., Gardner, C. D., Hostetter, T. H., Meyer, T. W.
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- **Uremic solutes and risk of end-stage renal disease in type 2 diabetes: metabolomic study** *KIDNEY INTERNATIONAL*
Niewczasz, M. A., Sirich, T. L., Mathew, A. V., Skupien, J., Mohnney, R. P., Warram, J. H., Smiles, A., Huang, X., Walker, W., Byun, J., Karoly, E. D., Kensicki, E. M., Berry, et al
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- **FREE INDOXYL SULFATE (INDICAN) LEVELS ARE NOT ASSOCIATED WITH RESTLESS LEGS SYNDROME (RLS) IN HEMODIALYSIS (HD) PATIENTS**
Banerjee, T., Meyer, T., Shafi, T., Melamed, M., Hostetter, T., Parekh, R., Powe, N.
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- **Prominent Accumulation in Hemodialysis Patients of Solutes Normally Cleared by Tubular Secretion** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Sirich, T. L., Funk, B. A., Plummer, N. S., Hostetter, T. H., Meyer, T. W.
2014; 25 (3): 615-622
- **Protein-Bound Molecules: A Large Family With a Bad Character** *SEMINARS IN NEPHROLOGY*
Sirich, T. L., Meyer, T. W., Gondouin, B., Brunet, P., Niwa, T.
2014; 34 (2): 106-117
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- **Retained organic solutes, patient characteristics and all-cause and cardiovascular mortality in hemodialysis: results from the retained organic solutes and clinical outcomes (ROSCO) investigators** *BMC NEPHROLOGY*
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- **Searching for Uremic Toxins** *CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Dobre, M., Meyer, T. W., Hostetter, T. H.
2013; 8 (2): 322-327
- **A Zebrafish Model for Uremic Toxicity: Role of the Complement Pathway** *BLOOD PURIFICATION*
Berman, N., Lectura, M., Thurman, J. M., Reinecke, J., Raff, A. C., Melamed, M. L., Quan, Z., Evans, T., Meyer, T. W., Hostetter, T. H.
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- **Competition for organic anion transporters in chronic renal disease Reply** *KIDNEY INTERNATIONAL*
Meyer, T. W., Hostetter, T. H.
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- **The Production of p-Cresol Sulfate and Indoxyl Sulfate in Vegetarians Versus Omnivores** *CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Patel, K. P., Luo, F. J., Plummer, N. S., Hostetter, T. H., Meyer, T. W.

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Meyer, T. W., Hostetter, T. H.
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- **Selectively increasing the clearance of protein-bound uremic solutes** *NEPHROLOGY DIALYSIS TRANSPLANTATION*
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Marquez, I. O., Tamba, S., Luo, F. Y., Li, Y., Plummer, N. S., Hostetter, T. H., Meyer, T. W.
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- **Indoxyl Sulfate: Long Suspected But Not Yet Proven Guilty** *CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
Sirich, T., Meyer, T. W.
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- **Reduction in Protein-Bound Solutes Unacceptable as Marker of Dialysis Efficacy during Alternate-Night Nocturnal Hemodialysis** *AMERICAN JOURNAL OF NEPHROLOGY*
Meijers, B., Toussaint, N. D., Meyer, T., Bammens, B., Verbeke, K., Vanrenterghem, Y., Kerr, P. G., Evenepoel, P.
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- **LOWER GENERATION OF UREMIC SOLUTES P-CRESOL SULFATE AND INDOXYL SULFATE WITH A VEGETARIAN DIET** *Spring Clinical Meeting of the National-Kidney-Foundation*
Luo, F., Patel, K., Plummer, N., Steinberg, L., Hostetter, T., Meyer, T.
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- **Derivatization of Methylamine and Ethylamine Followed by LC and Fluorescence Detection for Measurement of Urinary Clearance** *CHROMATOGRAPHIA*
Quan, Z., Ponda, M., Melamed, M., Raff, A., Berman, N., Scherer, J., Bitzer, M., Meyer, T., Hostetter, T.
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- Yaffe, K., Ackerson, L., Tamura, M. K., Le Blanc, P., Kusek, J. W., Sehgal, A. R., Cohen, D., Anderson, C., Appel, L., DeSalvo, K., Ojo, A., Seliger, S., Robinson, et al
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de Loor, H., Meijers, B. K., Meyer, T. W., Bammens, B., Verbeke, K., Dehaen, W., Evenepoel, P.
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Raff, A. C., Meyer, T. W., Hostetter, T. H.
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Dinh, D. C., Recht, N. S., Hostetter, T. H., Meyer, T. W.
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 - **Relationship of impaired olfactory function in ESRD to malnutrition and retained uremic molecules** *40th Annual Meeting of the American-Society-of-Nephrology/Annual Renal Week*
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 - **Uremia - Reply** *NEW ENGLAND JOURNAL OF MEDICINE*
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2008; 358 (1): 95
 - **Removal of the protein-bound solutes indican and p-cresol sulfate by peritoneal dialysis** *CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
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Meyer, T. W., Hostetter, T. H.
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 - **Increasing the clearance of protein-bound solutes by addition of a sorbent to the dialysate** *JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY*
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- **Downloadable computer models for renal replacement therapy** *KIDNEY INTERNATIONAL*
Walther, J. L., Bartlett, D. W., Chew, W., Robertson, C. R., Hostetter, T. H., Meyer, T. W.
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- **Impact of genetic background on nephropathy in diabetic mice** *AMERICAN JOURNAL OF PHYSIOLOGY-RENAL PHYSIOLOGY*
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