

# Nephrology Division Newsletter

## November 2022

### Special ASN Kidney Week Newsletter

UCSF

at



UCSF at ASN Kidney Week Orlando, FL  
November 3rd – November 6th, 2022

#### Awards

Michelle Estrella, MD

##### **Mid-Career Distinguished Mentor Award**

November 06, 2022 | 8:05 AM - 8:15AM | W415 Valencia, Orange County Convention Center, West Building

#### Speakers

Kathleen Liu, MD, PhD

##### **Year in Review: Critical Care**

October 19, 2022 | 09:00 AM - 09:00 AM | On-Demand, Virtual Only

Shuvo Roy, MD

##### **Prospects for an Implantable Artificial Kidney**

October 19, 2022 | 09:00 AM - 09:00 AM | On-Demand, Virtual Only

Meyeon Park, MD

##### **Diagnosis, Genetic Testing, and Risk Stratification in ADPKD**

November 03, 2022 | 12:55 PM - 01:15 PM | Windermere Ballroom X, Hyatt Regency Orlando

Shuvo Roy, PhD

##### **Progress Toward Implantable Artificial Kidneys**

November 03, 2022 | 02:30 PM - 03:00 PM | WF3 Tangerine, Orange County Convention Center, West Building

Kathleen Liu, MD, PhD

##### **Fluid Management in Septic AKI: When, What Type, and How Much? The Burton D. Rose, MD, Endowed Lectureship**

November 04, 2022 | 2:00 PM – 2:30 PM | W307, Orange County Convention Center, West Building

Kathleen Liu, MD, PhD

##### **An Adaptive Trial Platform AKI? Promises and Perils**

November 05, 2022 | 11:30 AM – 12:00 PM | W320, Chapin, Orange County Convention Center, West Building

#### Moderators

Delphine Tuot, MD

##### **Tired of Debating the Limitations of eGFR? Do Your Patients a Favor and Measure GFR**

November 03, 2022 | 10:30 a.m. – 12:30PM | W304 Foyer

Cynthia Delgado, MD

##### **Implementing the Race-Free eGFR Equations in Clinical Practice: Where Are We Now?**

November 03, 2022 | 04:30 PM - 06:00 PM | WF2 Tangerine, Orange County Convention Center, West Building

Neil Powe, MD

**Implementing the Race-Free eGFR Equations in Clinical Practice: Where Are We Now?**

November 03, 2022 | 04:30 PM - 06:00 PM | WF2 Tangerine, Orange County Convention Center, West Building

Kathleen Liu, MD, PhD

**Current and Future Approaches to the Diagnostic Assessment and Management of AKI in Patients with Cirrhosis**

November 04, 2022 | 12:45 PM - 01:45 PM | Regency Ballroom R, Hyatt Regency Orlando

Elaine Ku, MD

**Improving Patient Care at the Transition to Kidney Failure: Insights from USRDS and DOPP**

November 04, 2022 | 2:00PM – 4:00PM | W320 Chapin Foyer

Teresa Chen, MD

**CKD: Clinical Outcomes, Trials, Mechanistic Insights**

November 04, 2022 | 04:30 PM - 06:00 PM | W307, Orange County Convention Center, West Building

Zoltan G. Laszik, MD, PhD

**Spatial Analysis of the Kidneys**

November 05, 2022 | 02:00 PM – 04:00 PM | W307, Orange County Convention Center, West Building

**Oral Abstracts**

**[TH-OR02] Leveraging AKI Recovery Patterns Reveals a Genome-Wide Significant Variant Associated with a Higher Risk of Non-Resolving AKI**

November 03, 2022 | 04:39 PM - 04:48 PM

Location: W230, Orange County Convention Center, West Building

Bhatraju, Pavan K.; Stanaway, Ian Byrell; Menon, Rajasree; Schaub, Jennifer A.; Kretzler, Matthias; Ikizler, Talat Alp; Siew, Edward D.; Chinchilli, Vernon M.; Garg, Amit X.; Coca, Steven G.; Go, Alan S.; Kaufman, James S.; Kimmel, Paul L.; Parikh, Chirag R.; Wurfel, Mark M.; Himmelfarb, Jonathan

**[TH-OR03] Associations of Blood Mitochondrial DNA Copy Number with Risk of AKI After Cardiac Surgery**

November 03, 2022 | 04:48 PM - 04:57 PM

Location: W230, Orange County Convention Center, West Buildings.

Jotwani, Vasantha; Thiessen Philbrook; Katz, Ronit; Arking, Dan; Ix, Joachim H.; Tranah, Gregory J.; Waikar, Sushrut; Parikh, Samir M.; Sarnak, Mark; Shlipak, Michael; Parikh, Chirag R.

**[TH-OR07] Machine Learning Models Uncover Subphenotypes of AKI With Unique Signatures That Associate with Differing Clinical Outcomes**

November 03, 2022 | 05:24 PM - 05:33 PM

Location: W230, Orange County Convention Center, West Building

Vasquez-Rios, George; Oh, Wonsuk, Lee, Samuel; Bhatraju, Pavan K.; Mansour, Sherry; Moledina, Dennis G.; Siew, Edward D.; Garg, Amit X.; Chinchilli, Vernon M.; Kaufman, James S.; Hsu, Chi-yuan; Liu, Kathleen D.; Kimmel, Paul L.; Go, Alan S.; Wurfel, Mark M.; Himmelfarb, Jonathan; Parikh, Chirag R.; Coca, Steven G.; Nadkarni, Girish N.

**Posters**

**November 3 – 5, 2022 | 10:00 AM - 12:00 PM | Location: Exhibit Hall, Orange County Convention Center, West Building**

**[TH-PO026] AKI: Biomarkers, Risk Factors, Treatments, Outcomes Urinary Biomarkers and Kidney Injury in the VA NEPHRON-D Trial**

Kiernan, Elizabeth; Hu, David G.; Thiessen Philbrook; Ix, Joachim H.; Coca, Steven G.; Shlipak, Michael; Moledina, Dennis G.; Bonventre, Joseph V.; Fried, Linda F.; Parikh, Chirag R.

**[TH-PO028] Changes in Urinary Epidermal Growth Factor and CKD Progression: The ASSESS-AKI Study**

Menez, Steven; Thiessen Philbrook; Hu, David G.; Obeid, Wassim; Bhatraju, Pavan K.; Ikizler, Talat Alp; Siew, Edward D.; Garg, Amit X.; Chinchilli, Vernon M.; Go, Alan S.; Liu, Kathleen D.; Kaufman, James S.; Kimmel, Paul L.; Himmelfarb, Jonathan; Coca, Steven G.; Parikh, Chirag R.

**[TH-PO057] Pre-Hospitalization Characteristics Confound AKI Associations with Cardiovascular Outcomes: Findings from the CRIC Study**

McCoy, Ian; Hsu, Jesse Yenchih; Zhang, Xiaoming; Diamantidis, Clarissa; Taliercio, Jonathan; Go, Alan S.; Liu, Kathleen D.; Drawz, Paul E.; Srivastava, Anand; Horwitz, Edward J.; He, Jiang; Chen, Jing; Lash, James P.; Weir, Matthew R.; Hsu, Chi-yuan

**[TH-PO059] Association of Mild-to-Moderate AKI With Decline in eGFR<sub>cys</sub> vs. eGFR<sub>cr</sub> Among Individuals With CKD: The CRIC Study**

Muiru, Anthony N.; Hsu, Jesse Yenchih; Taliercio, Jonathan; Sondheimer, James H.; Ricardo, Ana C.; McCoy, Ian; Liu, Kathleen D.; Lash, James P.; Horwitz, Edward J.; He, Jiang; Go, Alan S.; Freedman, Barry I.; Drawz, Paul E.; Chen, Jing; Appel, Lawrence J.; Hsu, Chi-yuan

**[TH-PO238] Higher Plasma ADMA Levels and Lower ADMA and SDMA Fractional Excretion Were Associated with Risk of Atherosclerotic Cardiovascular Disease in Diabetic Kidney Disease**

Schrauben, Sarah J.; Anderson, Amanda Hyre; Hsu, Chi-yuan; Ix, Joachim H.; Shafi, Tariq; Shlipak, Michael; Chen, Jing; Hostetter, Thomas H.; Brown, Julia; Mehta, Rupal; Townsend, Raymond R.; Seegmiller, Jesse C.; Kimmel, Paul L.; Ramachandran, Vasanth S.; Feldman, Harold I.; Schelling, Jeffrey R.

**[TH-PO243] Association of Urine Biomarkers of Tubule Health With Mortality in Patients With Diabetes and CKD**

Vasquez-Rios, George; Katz, Ronit; Cushman, Mary; Parikh, Chirag R.; Kimmel, Paul L.; Waikar, Sushrut S.; Schrauben, Sarah J.; Greenberg, Jason Henry; Sarnak, Mark J.; Shlipak, Michael; Ix, Joachim H.; Gutierrez, Orlando M.

**[TH-PO311] Glycosuria in Tubule-Specific mTORC2 Knockout Mice Resolves on a High Potassium Diet**

Demko, John E.; Saha, Bidisha; Takagi, Enzo; Manis, Anna D.; Pearce, David

**[TH-PO347] WNK1 Is a Chloride-Sensing Scaffold That Potently Regulates mTORC2 Activity and ENaC**

Saha, Bidisha; Leite-Dellova, Deise; Takagi, Enzo; Demko, John E.; Shabbir, Waheed; Pearce, David

**[TH-PO350] Regulation of SGK1 Phosphorylation and Activity by mTORC2**

Takagi, Enzo; Chen, Junliang; Wang, Feng; Saha, Bidisha; Pearce, David

**[TH-PO369] Experience with Genetic Testing at a Large Polycystic Kidney Disease-Focused Program**

Chao, Allen; Gao, Ying; Jiang, Jordan; Etwaru, Diana; Osunde, Adesuwa; Varansi, Laalasa; Gluck, Stephen; Loeb, Gabriel; Park, Meyeon

**[TH-PO370] Tolvaptan Use at a Large PKD-Focused Program**

Chao, Allen; Gao, Ying; Jiang, Jordan; Etwaru, Diana; Osunde, Adesuwa; Varansi, Laalasa; Gluck, Stephen L.; Park, Meyeon

**[TH-PO618] The Risks and Benefits of Aspirin for Primary and Secondary Prevention of Mortality, Cardiovascular Disease, and Kidney Failure**

Taliercio, Jonathan J.; Nakhoul, Georges; Mehdi, Ali; Sha, Daohang; Schold, Jesse D.; Weir, Matthew R.; Kasner, Scott E.; Hassanein, Mohamed; Navaneethan, Sankar D.; Go, Alan S.; Lora, Claudia M.; Jaar, Bernard G.; Chen, Teresa K.; Chen, Jing; He, Jiang; Rahman, Mahboob

**[TH-PO678] Iron Deficiency and Incident Heart Failure in Community Dwelling Individuals**

Sharma, Shilpa; Katz, Ronit; Chaves, Paulo H. M.; Hoofnagle, Andrew N.; Kizer, Jorge R.; Shlipak, Michael; Bansal, Nisha; Ganz, Tomas; Ix, Joachim H.

**[TH-PO762] Association of Marijuana, Tobacco, and Alcohol Use with Estimated Glomerular Filtration Rate in Women Living With HIV and Women Without HIV**

Fisher, Molly; Hoover, Donald; Shi, Qihu; Sharma, Anjali; Estrella, Michelle M.; Alcaide, Maria L.; Collins, Lauren Frances; Dionne, Jodie; French, Audrey; McFarlane, Samy I.; McKay, Heather S.; Palella, Frank J.; Sarkar, Sudipa; Spence, Amanda Blair; Witt, Mallory D.; Ross, Michael J.

**[TH-PO797] Effect of Structured Exercise on Biomarkers of Kidney Health in Sedentary Older Adults in the LIFE Study: A Randomized Clinical Trial**

Sheshadri, Anoop; Lai, Mason; Hsu, Fang-Chi; Bauer, Scott R.; Chen, Shyh-Huei; Jotwani, Vasanth; Tranah, Gregory J.; Fielding, Roger A.; Liu, Christine; Ix, Joachim H.; Coca, Steven G.; Shlipak, Michael

**[TH-PO798] The Effect of Long-Term High-Intensity Interval Training on CKD Prevention in the Elderly: A Substudy of the Generation-100 Randomized Controlled Trial**

Hallan, Stein I.; Øvrehus, Marius Altern; Shlipak, Michael; Ix, Joachim H.; Stensvold, Dorthe; Langlo, Knut Asbjørn Rise

**[TH-PO862] Circulating Proteins Improve Prediction of Short-Term Kidney Disease Progression**

Lopez-Silva, Carolina; Surapaneni, Aditya L.; Coresh, Josef; Chen, Teresa K.; Grams, Morgan

**[TH-PO865] Mitochondrial DNA Haplotypes and Risk of CKD and AKI**

Jotwani, Vasantha; Sarnak, Mark J.; Thiessen, Philbrook; Katz, Ronit; Ix, Joachim H.; Walkar, Sushrut S.; Parikh, Chirag R.; Tranah, Gregory J.; Parikh, Samir M.; Shlipak, Michael; Arking, Dan

**[TH-PO897] Estimating Time to Kidney Failure: Comparison of KFRE and eGFR Thresholds**

Chu, Chi D.; Mcculloch, Charles E.; Hsu, Raymond K.; Powe, Neil R.; Bieber, Brian; Robinson, Bruce M.; Pecoits-Filho, Roberto; Raina, Rupesh; Tuot, Delphine S.

**[FR-PO305] Identification of Kidney Cell-Type-Specific Regulatory Elements Reveals Genetic Variants, Genes, and Cell Types Influencing Kidney Function Heritability**

Loeb, Gabriel; Kathail, Pooja; Shuai, Richard W.; Cheung, Kennix-Kalen; Chung, Ryan K.; Ioannidis, Nilah; Reiter, Jeremy

**[FR-PO348] Repurposing Calcium-Sensing Receptor Activator Cinacalcet for Autosomal Dominant Polycystic Kidney Disease Treatment**

Yottasan, Pattareeya; Chu, Qi Tiffany; Cil, Onur

**[FR-PO435] Improving Blood Pressure Control in Young Patients at Elevated Cardiovascular Risk: A Pilot Study**

Seth, Divya; Bicki, Alexandra, Sadiq, Sanober, Ku Elaine

**[FR-PO565] Variability Between Measured Organic Acids and Net Acid Excretion and Estimated Organic Acids and Net Acid Production**

Banerjee, Tanushree; Frassetto, Lynda

**[FR-PO755] Kidney Tubule Injury and Dysfunction Biomarkers and Risk of Incident Hypertension in Community-Living Individuals: Results from the Multi-Ethnic Study of Atherosclerosis**

Malhotra, Rakesh; Katz, Ronit; Kimmel, Paul L.; Ramachandran, Vasana S.; Al-Rousan, Tala; Greenberg, Jason Henry; Parikh, Chirag R.; Bonventre, Joseph V.; Schelling, Jeffrey R.; Sarnak, Mark J.; Gutierrez, Orlando M.; Shlipak, Michael; Ix, Joachim H.

**[FR-PO756] In SPRINT Participants with Creatinine Elevations During Follow-Up, Trajectories of Tubule Injury Markers Associate With eGFR Decline**

Ix, Joachim H.; Katz, Ronit; Shigenaga, Judy; Cheung, Alfred; Raphael, Kalani L.; Hallan, Stein I.; Seegmiller, Jesse C.; Malhotra, Rakesh; Jotwani, Vasantha; Garimella, Pranav S.; Shlipak, Michael

**[FR-PO896] Understanding Care Gaps in the CKD Clinic**

Kwong, Yuenting; Stewart, Erik; Chu, Chi D.; Liu, Kathleen D.; Lo, Lowell J.

**[FR-PO907] Associations of Baseline and Longitudinal Uromodulin with ESKD and Mortality: Results from the AASK Trial**

Chen, Teresa K.; Estrella, Michelle M.; Appel, Lawrence J.; Surapaneni, Aditya L.; Kottgen, Anna; Obeid, Wassim; Parikh, Chirag R.; Grams, Morgan

**[FR-PO924] Estimating Underdetection of CKD in Real-World Health Systems**

Chu, Chi D.; Xia, Fiang; Du, Yuxian; Tuot, Delphine S.; Shlipak, Michael; Lamprea, Julio; Singh, Rakesh; Gualtieri, Ralph; Kong, Sheldon X.; Williamson, Todd E.; Estrella, Michelle M.

**[FR-PO989] Inhibition of TGF- $\beta$  Unlocks Multiple Proximal Tubule Functions In Vitro**

Fissell, William Henry; Evans, Rachel C.; Hunter, Kuniko; Love, Harold D.; Roy, Shuvo

**[SA-PO018] Endovascular Nephrectomy in Swine for Evaluation of Implantable Devices for Renal Replacement Therapy**

Moyer, Jarrett; Wilson, Mark W.; Santandreu, Ana; Chen, Caressa; Hu, Dean; Kerdok, Amy; Porock, Edward; Wright, Nathan; Ly, Jimmy; Blaha, Charles; Frassetto, Lynda A.; Fissell, William Henry; Vartanian, Shant M.; Roy, Shuvo

**[SA-PO027] Hemodynamic Optimization of an Implantable Artificial Kidney Device Using Computational Analysis**  
Laffitte Farina, Andre; Fissell, William Henry; Roy, Shuvo; Chivukula, Venkat Keshav

**[SA-PO186] Free 25(OH)D Concentrations and Clinical Outcomes in Elderly Community-Living Adults: The Health, Aging, and Body Composition Study**

Cheng, Jonathan; Hoofnagle, Andrew N.; Katz, Ronit; Kritchevsky, Stephen B.; Shlipak, Michael; Sarnak, Mark J.; Ix, Joachim H.; Ginsberg, Charles

**[SA-PO191] Phosphate Overload Index and Risk of Cardiovascular Disease and Death in CKD: The CRIC Study**

Chen, Jing; Wolf, Myles; Isakova, Tamara; Geng, Siyi; He, Hua; Rosas, Sylvia E.; Lora, Claudia M.; Jaar, Bernard G.; Hamm, L. Lee; Go, Alan S; He, Jiang

**[SA-PO393] Risk of Death in Hospital-Based vs. Free-Standing Dialysis Facilities in the United States**

Zhang, Lucy; Amaral, Sandra; Mcculloch, Charles E.; Grimes, Barbara A.; Ku, Elaine

**[SA-PO418] Molecular Sieving via Conformational Flexing During Frictionless Flow in Slippery Carbon Nanotube Membranes for Hemodialysis**

Kidambi, Piran; Cheng, Peifu; Ferrell, Nicholas J.; Öberg, Carl Mikael; Buchsbaum, Steven F.; Jue, Melinda L.; Wang, Dan; Roy, Shuvo; Fornasiero, Francesco; Fissell, William Henry

**[SA-PO462] Metabolites Associated With Uremic Symptoms in Hemodialysis Patients**

Myint, Leslie; Rhee, Eugene P.; Wulczyn, Kendra E.; Kalim, Sahir; Segev, Dorry L.; McAdams-DeMarco, Mara; Thadhani, Ravi I.; Moe, Sharon M.; Moorthi, Ranjani N.; Hostetter, Thomas H.; Himmelfarb, Jonathan; Meyer, Timothy W.; Powe, Neil R.; Tonelli, Marcello; Shafi, Tariq;

**[SA-PO798] Prevalence and Predictors of Suboptimal Kidney Donor Profile Index (KDPI) and Estimated Post-Transplant Survival (EPTS) Mismatches in Kidney Transplant Recipients**

Chen, Sarah; Grimes, Barbara A.; Mcculloch, Charles E.; Vincenti, Flavio; Ku, Elaine

**[SA-PO806] Variations in Access to Repeat Transplantation by Transplant Center Continuity**

Emanuel, Davidson F.; Copeland, Timothy P.; Johansen, Kirsten L.; Mcculloch, Charles E.; Ku, Elaine

**[SA-PO819] Addressing the Organ Shortage, Increasing Transplant Longevity, and Enabling Minimally Invasive Kidney Transplantation: Ex Vivo Validation of a Kidney Anastomosis Facilitation and Cooling Device**

Hansen, Keith S.; Gardner, James Morgan

**[SA-PO856] Kidney Only Transplantation in Primary Hyperoxaluria Type 1: A Novel Approach in the siRNA Therapy Era**

Breeggemann, Matthew; Gluck, Stephen L.; Stoller, Marshall L.; Lee, Marsha May

**[SA-PO857] Relapsing Proliferative Glomerulonephritis with Monoclonal Immunoglobulin Deposits After Renal Transplantation Presenting with AKI and Gross Hematuria**

Shaikh, Sana J.; Laszik, Zoltan G.; Wong, Sandy W.; Webber, Allison B.

**[SA-PO931] Metabolomics of Uremic Symptoms in CKD**

Wulczyn, Kendra E.; Srivastava, Anand; He, Jiang; Kelly, Tanika; Ricardo, Ana C.; Shah, Vallabh O.; Nelson, Robert G.; Hsu, Chi-yuan; Anderson, Amanda Hyre; Denburg, Michelle; Ramachandran, Vasanth S.; Feldman, Harold I.; Clish, Clary B.; Ouyang, Tianqi; Kimmel, Paul L.; Rincon-Choles, Hernan; Mehta, Rupal; Shafi, Tariq; Rhee, Eugene P.; Kalim, Sahir

**[SA-PO938] Outcomes for Patients with Renal AA Amyloidosis Associated with Injection Heroin Use**

Johnson, Rachel R.; Urisman, Anatoly; Cho, Kerry C.; Sam, Ramin; Wong, Sandy W.

**[SA-PO991] Quantitative in Situ Assessments of Mitochondrial Impairment Are Associated with Progressive Kidney Disease**

Huang, Huihui; Zsengeller, Zsuzsanna Kinga; Jotwani, Vasantha; Thiessen Philbrook; Katz, Ronit; Ix, Joachim H.; Parikh, Chirag R.; Arking, Dan; Sarnak, Mark J.; Shlipak, Michael; Waikar, Sushrut S.; Parikh, Samir M.

**[SA-PO1004] Altered Bone Marrow Myelopoiesis Contributes to Renal Injury**

Spear, Ryan; Xu, Yan; Vincenti, Flavio; Cao, Yanxia; Mangos, Steve; Reiser, Jochen; Hahm, Eunsil