Debates in Nephrology

776 Should PLEX Be Used for Severe AKI and/or Pulmonary Hemorrhage in ANCA-Associated Vasculitis (AAV)? PRO
Vimal K. Derebail
See related debate on page 779 and commentary on page 782.

779 Should PLEX Be Used for Severe AKI and/or Pulmonary Hemorrhage in ANCA-Associated Vasculitis (AAV)? CON
Richard J. Glassock
See related debate on page 776 and commentary on page 782.

Moderator Commentary

782 Should PLEX Be Used for Severe AKI and/or Pulmonary Hemorrhage in ANCA-Associated Vasculitis (AAV)? COMMENTARY
Ronald J. Falk
See related debates on pages 776 and 779.

Original Investigation

Chronic Kidney Disease

784 Twist1 in T Lymphocytes Augments Kidney Fibrosis after Ureteral Obstruction
Jiafa Ren, Xiaohan Lu, Robert Griffiths, Jamie R. Privratsky, and Steven D. Crowley

Cystic Kidney Disease

795 Association of Baseline Urinary Metabolic Biomarkers with ADPKD Severity in TAME-PKD Clinical Trial Participants
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Diabetes and the Kidney

809 A Hyaluronan Synthesis Inhibitor Delays the Progression of Diabetic Kidney Disease in A Mouse Experimental Model
Guillermo Selman, Laisel Martinez, Andrea Lightle, Alejandra Aguilar, Daniel Woltmann, Yuxuan Xiao, Roberto I. Vazquez-Padron, and Loay H. Salman

Dialysis

819 Renal Recovery and Mortality Risk among Patients with Hepatorenal Syndrome Receiving Chronic Maintenance Dialysis
Sophie McAllister, Jennifer C. Lai, Timothy P. Copeland, Kirsten L. Johansen, Charles E. McCulloch, Yuenting D. Kwong, Divya Seth, Barbara Grimes, and Elaine Ku

Glomerular and Tubulointerstitial Diseases

828 Total Nephron Number and Single-Nephron Parameters in Patients with IgA Nephropathy

Hypertension

842 The Transcription Factor Sox6 Controls Renin Expression during Renal Artery Stenosis
Mohammad Saleem, Luz Saavedra-Sánchez, Pierina Barturen-Larrea, and Jose A. Gomez
Mineral Metabolism

Free Deoxycholic Acid Exacerbates Vascular Calcification in CKD through ER Stress-Mediated ATF4 Activation
Shinobu Miyazaki-Anzai, Masashi Masuda, Yuji Shiozaki, Audrey L. Keenan, Michel Chonchol, Claus Kremoser, and Makoto Miyazaki

Brief Communication

Acute Kidney Injury and ICU Nephrology
Utility of Kinetic GFR for Predicting Severe Persistent AKI in Critically Ill Children and Young Adults
Shina Menon, Rajit K. Basu, Matthew F. Barhight, Stuart L. Goldstein, and Katja M. Gist

Genetics
Whole-Exome Sequencing Application for Genetic Diagnosis of Kidney Diseases: A Study from Southwest of Iran
Mina Zamani, Tahereh Seifi, Sahar Sedighzadeh, Samira Negahdari, Jawaher Zeighami, Alireza Sedaghat, Tahereh Yadegari, Alhossein Saberi, Mohammad Hamid, Gholamreza Shariati, and Hamid Galehdari

Clinical Research Methods

Introduction to Supervised Machine Learning
Aditya Biswas, Ishan Saran, and F. Perry Wilson

Perspective

Are the Protective Effects of SGLT2 Inhibitors a “Class-Effect” or Are There Differences between Agents?
Darren W. Schmidt, Christos Argyropoulos, and Namita Singh

Kidney–Gut Crosstalk in AKI
Sang Kyung Jo

The Potential Role of the Gut Microbiota in Kidney Transplantation
Jennifer Huang, Thalia Salinas, Lars F. Westblade, and John R. Lee

Review Article

Renal Hemodynamics, Function, and Oxygenation in Critically Ill Patients and after Major Surgery
Sven-Erik Ricksten, Gudrun Bragadottir, Lukas Lannemyr, Bengt Redfors, and Jenny Skytte

Role of Virus-Specific T Cell Therapy for Cytomegalovirus and BK Infections in Kidney Transplant Recipients
Sandesh Parajuli, Margaret Jorgenson, Ross O. Meyers, Arjang Djamali, and Jacques Galipeau

Clinical Images in Nephrology and Dialysis

Worsening Kidney Function, Proteinuria, and Hematuria in a Patient with CLL
Pavan Chopra, Nicole K. Andeen, and Stephen E. Spurgeon

AKI in a Patient with Fever, Rash, and Joint Pain
Abraham W. Aron and Ursula C. Brewster

On the Cover
Glomerulus on light microscopy. Single glomeruli demonstrating lobular accentuation, mesangial hypercellularity with intracapillary hyaline thrombi or “cryoplasts” (hematoxylin and eosin x40x). Adapted from figure 2 in “AKI in a patient with fever, rash and joint pain” by Abraham W. Aron and Ursula Brewster. KIDNEY360 2: [918–919], 2021. DOI: 10.34067/KID.0000402021.