Editorials

1723  Patiromer—an Oral Calcium-Loaded Potassium Binder: Kalirrhea with Calciuresis
Michael Emmett and Ankit Mehta
See related article on page 1769.

1726  The Influence of Processing and Storage Conditions on Renal Protein Biomarkers
Callen Giesen and John C. Lieske
See related article on page 1794.

1729  Can We Predict the Unpredictable after Vascular Access Creation?
Kevan R. Polkinghorne and Charmaine E. Lok
See related article on page 1802.

1732  Practice Change Is Needed for Dialysis Decision Making with Older Adults with Advanced Kidney Disease
Jennifer S. Scherer and Alvin H. Moss
See related article on page 1825.

Original Articles

Chronic Kidney Disease

1735  Chronic Kidney Disease and Risk for Gastrointestinal Bleeding in the Community: The Atherosclerosis Risk in Communities (ARIC) Study
Junichi Ishigami, Morgan E. Grams, Rakhi P. Naik, Josef Coresh, and Kunihiro Matsushita

Clinical Nephrology

1752  Renal Survival in Patients with Collapsing Compared with Not Otherwise Specified FSGS

Clinical Pharmacology

1760  Ethnic Differences in Incidence and Outcomes of Childhood Nephrotic Syndrome
Tonny H.M. Banh, Neesha Hussain-Shamsy, Viral Patel, Jovanka Vasilevska-Ristovska, Karlota Borges, Cathryn Sibbald, Deborah Lipszyc, Josefina Brooke, Denis Geary, Valerie Langlois, Michele Reddon, Rachel Pearl, Leo Levin, Monica Piekut, Christoph P.B. Licht, Seetha Radhakrishnan, Kimberly Aitken-Menezes, Elizabeth Harvey, Diane Hebert, Tino D. Piscione, and Rulan S. Parekh

1769  Effect of Patiromer on Urinary Ion Excretion in Healthy Adults
David A. Bushinsky, David M. Spiegel, Coleman Gross, Wade W. Benton, Jeanene Fogli, Kathleen M. Hill Gallant, Charles Du Mond, Geoffrey A. Block, Matthew R. Weir, and Bertram Pitt
See related editorial on page 1723.
Clinical Pharmacology (Continued)

1777 **Mycophenolic Acid Pharmacokinetics and Relapse in Children with Steroid–Dependent Idiopathic Nephrotic Syndrome**
Stéphanie Tellier, Aymeric Dallocchio, Vincent Guigonis, Frank Saint-Marcoux, Brigitte Llanas, Lydia Ichay, Flavio Bandin, Astrid Godron, Denis Morin, Karine Brochard, Peggy Gandia, Stéphane Bouchet, Pierre Marquet, Stéphane Decramer, and Jérôme Harambat

Epidemiology and Outcomes

1784 **High Density Lipoprotein Cholesterol and the Risk of All-Cause Mortality among U.S. Veterans**
Benjamin Bowe, Yan Xie, Hong Xian, Sumitra Balasubramanian, Mohamed A. Zayed, and Ziyad Al-Aly

1794 **Effect of Processing Delay and Storage Conditions on Urine Albumin-to-Creatinine Ratio**
William Herrington, Nicola Illingworth, Natalie Staplin, Aishwarya Kumar, Ben Storey, Renata Hrusecka, Parminder Judge, Maria Mahmood, Sarah Parish, Martin Landray, Richard Haynes, Colin Baigent, Michael Hill, and Sarah Clark
See related editorial on page 1726.

ESRD and Chronic Dialysis

1802 **Predictors of Initiation for Predialysis Arteriovenous Fistula**
Alian Al-Balas, Timmy Lee, Carlton J. Young, Jill Barker-Finkel, and Michael Allon
See related editorial on page 1729.

1809 **Longitudinal Changes in Protein Carbamylation and Mortality Risk after Initiation of Hemodialysis**

1817 **A Prospective, Randomized Trial of Routine Duplex Ultrasound Surveillance on Arteriovenous Fistula Maturation**
Ahram Han, Seung-Kee Min, Mi-Sook Kim, Kwon Wook Joo, Jungsun Kim, Jongwon Ha, Joongyub Lee, and Sang-il Min

1825 **Decisions about Renal Replacement Therapy in Patients with Advanced Kidney Disease in the US Department of Veterans Affairs, 2000–2011**
Susan P.Y. Wong, Paul L. Hebert, Ryan J. Laundry, Kenric W. Hammond, Chuan-Fen Liu, Nilka R. Burrows, and Ann M. O’Hare
See related editorial on page 1732.

Nephrolithiasis

1834 **Dietary Protein and Potassium, Diet–Dependent Net Acid Load, and Risk of Incident Kidney Stones**
Pietro Manuel Ferraro, Ernest I. Mandel, Gary C. Curhan, Giovanni Gambaro, and Eric N. Taylor

Renal Transplantation

1845 **Mammalian Target of Rapamycin Inhibitors and Clinical Outcomes in Adult Kidney Transplant Recipients**
Sunil V. Badve, Elaine M. Pascoe, Michael Burke, Philip A. Clayton, Scott B. Campbell, Carmel M. Hawley, Wai H. Lim, Stephen P. McDonald, Germaine Wong, and David W. Johnson

Glomerular Diseases: Update for the Clinician

1856 **All Things Complement**
Joshua M. Thurman and Carla M. Nester

Commentary

1867 **RRT in AKI: Start Early or Wait?**
Kathleen D. Liu and Paul M. Palevsky
On the Cover
A 39 year old woman with a history of hypertension presented with fever, oral ulcers, loose stools and abdominal pain. She had pancytopenia (hemoglobin - 8 g/dl, WBC - 500/μL, platelets - 16,000/μL) and renal dysfunction requiring dialysis support. Infectious and autoimmune work-up were non-diagnostic so a renal biopsy was performed. Histological examination revealed a dense interstitial infiltrate with cells of three distinct lineages including myeloid and erythroid cells and megakaryocytes, consistent with extramedullary haematopoiesis (EMH). Glomeruli and blood vessels were unremarkable but tubular epithelial cell injury was noted. EMH is the development of hematopoietic tissue outside the bone marrow and is most commonly seen in the liver, spleen and lymph nodes, but is rarely seen in the kidney. Renal involvement can be parenchymal, intrapelvic or perirenal in location and is usually asymptomatic. In the parenchymal type, the kidney may be diffusely enlarged or have a focal mass. Intrapelvic involvement is usually an extension of a parenchymal lesion and the EMH tissue can cause obstructive renal failure. In the perirenal type, the hematopoietic tissue encases the kidney. Renal EMH typically occurs in association with a chronic hematological disorder. The pathophysiology of EMH in the kidney is not fully understood. It has been hypothesized that hematopoietic cells are derived from local mesenchymal pluripotent cells which then proliferate in response to a stimulating factor. The optimal treatment is unknown. Image and text provided by Anila Kurien, Center for Renal and Urological Pathology, Chennai, Tamil Nadu, India and Goutham Seralathan, G Kuppuswamy Naidu Memorial Hospital – Nephrology Chennai, Tamil Nadu, India.