Editorials

339  Echocardiography: Providing Additional Insights into Cardiovascular Structural and Functional Abnormalities in Advanced CKD
Gautam R. Shroff and Charles A. Herzog
See related article on page 355.

342  Treatment of Acidosis in CKD
Muhammad M. Yaqoob
See related article on page 371.

344  Histologic Classification of FSGS: Does Form Delineate Function?
Michael J. Choi
See related article on page 399.

Original Articles

Acute Kidney Injury/Acute Renal Failure

347  Incidence Rate, Clinical Correlates, and Outcomes of AKI in Patients Admitted to a Comprehensive Cancer Center
Abdulla K. Salahudeen, Simit M. Doshi, Tushar Pawar, Gul Nowshad, Amit Lahoti, and Pankaj Shah

Chronic Kidney Disease

355  A Longitudinal Study of Left Ventricular Function and Structure from CKD to ESRD: The CRIC Study
Nisha Bansal, Martin Keane, Patrice Delafontaine, Daniel Dries, Elyse Foster, Crystal A. Gadegbeku, Alan S. Go, L. Lee Hamm, John W. Kusek, Akinlolu O. Ojo, Mahboob Rahman, Kaixiang Tao, Jackson T. Wright, Dawei Xie, and Chi-yuan Hsu, for the CRIC Study Investigators
See related editorial on page 339.

363  Plasma Metabolomic Profiles in Different Stages of CKD

371  A Comparison of Treating Metabolic Acidosis in CKD Stage 4 Hypertensive Kidney Disease with Fruits and Vegetables or Sodium Bicarbonate
Nimrit Goraya, Jan Simoni, Chan-Hee Jo, and Donald E. Wesson
See related editorial on page 342.

Clinical Immunology and Pathology

382  Decreased CD5+ B Cells in Active ANCA Vasculitis and Relapse after Rituximab
Clinical Nephrology

392 Acute Renal Infarction: A Case Series

399 Association of Histologic Variants in FSGS Clinical Trial with Presenting Features and Outcomes
See related editorial on page 344.

407 Complement Factor H–Related Protein 1 Deficiency and Factor H Antibodies in Pediatric Patients with Atypical Hemolytic Uremic Syndrome
Johannes Hofer, Andreas R. Janecke, L.B. Zimmerhackl, Magdalena Riedl, Alejandra Rosales, Thomas Giner, Gerard Cortina, Carola J. Haindl, Barbara Petzelberger, Miriam Pawlik, Verena Jeller, Udo Vester, Bettina Gadner, Michael van Husen, Michael L. Moritz, Reinhard Würzner, and Therese Jungraithmayr, for the German-Austrian HUS Study Group

416 Lymphopenia and Treatment-Related Infectious Complications in ANCA-Associated Vasculitis
Rémi Goupil, Soumeya Brachemi, Annie-Claire Nadeau-Fredette, Clément Déziel, Yves Troyanov, Valery Lavergne, and Stéphan Troyanov

Epidemiology and Outcomes

424 Association of Arterial Rigidity with Incident Kidney Disease and Kidney Function Decline: The Health ABC Study
Magdalena Madero, Carmen Peralta, Ronit Katz, Robert Canada, Linda Fried, Samer Najjar, Michael Shlipak, Eleanor Simonsick, Edward Lakatta, Kushang Patel, Dena Rittkin, Marquis Hawkins, Anne Newman, and Mark Sarnak, for the Health ABC Study

434 Combined Association of Creatinine, Albuminuria, and Cystatin C with All-Cause Mortality and Cardiovascular and Kidney Outcomes
Salman Waheed, Kunihiro Matsushita, Brad C. Astor, Ron C. Hoogeveen, Christie Ballantyne, and Josef Coresh

ESRD and Chronic Dialysis

443 Comparison Analysis of Nutritional Scores for Serial Monitoring of Nutritional Status in Hemodialysis Patients
Ilia Beberashvili, Ada Azar, Inna Sinuani, Hadas Kadoshi, Gregory Shapiro, Leonid Feldman, Zhan Averbukh, and Joshua Weissgarten

Renal Transplantation

452 Low Plasma a-Tocopherol Concentrations and Adverse Clinical Outcomes in Diabetic Hemodialysis Patients
Katharina M. Espe, Jens Raila, Andrea Henze, Katja Blouin, Andreas Schneider, Daniel Schmiedeke, Vera Krane, Stefan Pilz, Florian J. Schweigert, Berthold Hocher, Christoph Wanner, and Christiane Drechsler, for the German Diabetes and Dialysis Study Investigators

460 Serum Adiponectin Levels and Mortality after Kidney Transplantation
Ahsan Alam, Miklos Z. Molnar, Maria E. Czira, Anna Rudas, Akos Ujzdsazi, Kamyar Kalantar-Zadeh, Laszlo Rosivall, and Istvan Mucsi
Erratum

Attending Rounds

469 An Elderly Patient with Chronic Hyponatremia
Tomas Berl

Commentary

476 AKI Transition of Care: A Potential Opportunity to Detect and Prevent CKD
Stuart L. Goldstein, Bertrand L. Jaber, Sarah Faubel, and Lakhmir S. Chawla, for the Acute Kidney Injury Advisory Group of the American Society of Nephrology

In-Depth Review

484 Renal Failure in Patients with Left Ventricular Assist Devices
Ami M. Patel, Gbemisola A. Adeseun, Irfan Ahmed, Nanhi Mitter, J. Eduardo Rame, and Michael R. Rudnick

Mini-Reviews

497 The Risk of AKI in Patients Treated with Intravenous Solutions Containing Hydroxyethyl Starch
Andrew D. Shaw and John A. Kellum

504 The Central American Epidemic of CKD
Daniel E. Weiner, Michael D. McClean, James S. Kaufman, and Daniel R. Brooks

On the Cover

What’s the diagnosis? Dysmorphic red blood cells in a patient with a proliferative glomerulonephritis (400× magnification). The presence of dysmorphic red blood cells may be helpful in differentiating glomerular bleeding from extrarenal bleeding from a urothelial source. With urothelial bleeding the red blood cells are typically uniform and round, appearing similar to their appearance on a peripheral blood smear. Dysmorphic red blood cells, as seen in this image, are characterized by blebs, budding and marked variability in size and shape due to segmental loss of membrane. It is thought that the morphologic damage to the red blood cells results from mechanical trauma as they pass through breaks in the glomerular basement membrane. The presence of >5% acanthocytes (dysmorphic red blood cells characterized by ring forms with vesicular protrusions) is thought to be >95% specific for glomerular bleeding.
(Image and text provided by Paul M. Palevsky, MD, FASN, Renal Section, VA Pittsburgh Healthcare System and Renal-Electrolyte Division, University of Pittsburgh School of Medicine, Pittsburgh, PA)