Editorials

1321 Does Changing the Volume Matter? The Relationship of Urine Volume and Dialysis Intensity
Christine K. Federspiel and Kathleen D. Liu
See related article on page 1335.

1324 Clustering of Anti-GBM Disease: Clues to an Environmental Trigger?
Stephen P. McAdoo and Charles D. Pusey
See related article on page 1392.

1327 Antihypertensive Medication in Patients Pre- and Postdialysis: Still Hazy After All These Years
Jordana B. Cohen and Raymond R. Townsend
See related article on page 1401.

1330 Fluid First or Not So Fast: Ultrafiltration Rate and the ESRD Quality Incentive Program
Daniel E. Weiner and Eduardo Lacson Jr.
See related article on page 1422.

1333 Nephrologists Versus Peripherally Inserted Central Catheters: Are the PICCs Winning?
Sean Kalloo and Jay B. Wish
See related article on page 1434.

Original Articles

Acute Kidney Injury

1335 Comparison of Urine Output among Patients Treated with More Intensive Versus Less Intensive RRT: Results from the Acute Renal Failure Trial Network Study
Finnian R. McCausland, Josephine Asafo-Adjei, Rebecca A. Betensky, Paul M. Palevsky, and Sushrut S. Waikar
See related editorial on page 1321.

Chronic Kidney Disease

1343 Association of Urinary Biomarkers of Inflammation, Injury, and Fibrosis with Renal Function Decline: The ACCORD Trial

1353 Patterns of Kidney Function Decline Associated with APOL1 Genotypes: Results from AASK
Adrienne Tin, Morgan E. Grams, Michelle Estrella, Michael Lipkowitz, Tom H. Greene, Wen Hong Linda Kao, Liang Li, and Lawrence J. Appel

1360 T Lymphocyte Activation Markers as Predictors of Responsiveness to Rituximab among Patients with FSGS
Chang-Yien Chan, Isaac Desheng Liu, Lourdes Paula Resontoc, Kar-Hui Ng, Yiong-Huak Chan, Perry Yew-Weng Lau, Mya Than, Stanley C. Jordan, Kong-Peng Lam, Wee-Song Yeo, and Hui-Kim Yap

Clinical Nephrology

1369 Association of mGFR of the Remaining Kidney Divided by Its Volume before Donation with Functional Gain in mGFR among Living Kidney Donors
Marie Courbebaisse, François Gaillard, Anne-Marie Tissier, Catherine Fournier, Alexis Le Nestour, Jean-Michel Corréas, Hind Slimani-Thevenet, Frank Martinez, Carine Léon, Dominique Eladari, Marc-Olivier Timsit, Philippe Otal, Chantal Hignette, Gérard Friedlander, Arnaud Méjean, Pascal Houillier, Nassim Kamar, and Christophe Legendre
Critical Care Nephrology

1377 Pharmacokinetics and Pharmacodynamics of Extended Infusion Versus Short Infusion Piperacillin-Tazobactam in Critically Ill Patients Undergoing CRRT

Epidemiology and Outcomes

1384 Diabetes, Kidney Disease, and Cardiovascular Outcomes in the Jackson Heart Study
Maryam Afkarian, Ronit Katz, Nisha Bansal, Adolfo Correa, Bryan Kestenbaum, Jonathan Himmelfarb, Ian H. de Boer, and Bessie Young

1392 Spatial and Temporal Clustering of Anti-Glomerular Basement Membrane Disease
Mark Canney, Paul V. O’Hara, Caithiona M. McEvoy, Samar Medani, Dervla M. Connaughton, Ahad A. Abdalla, Ross Doyle, Austin G. Stack, Conall M. O’Searghda, Michael R. Clarkson, Matthew D. Griffin, John Holian, Anthony M. Dorman, Aileen Niland, Mary Keogan, Eleanor M. Wallace, Niall P. Conlon, Cathal Walsh, Alan Kelly, and Mark A. Little
See related editorial on page 1324.

1401 Antihypertensive Medication Use in Older Patients Transitioning from Chronic Kidney Disease to End-Stage Renal Disease on Dialysis
Tara I. Chang, Yuanchao Zheng, Maria E. Montez-Rath, and Wolfgang C. Winkelmayer
See related editorial on page 1327.

1413 Geovariation in Fracture Risk among Patients Receiving Hemodialysis
James B. Wetmore, Jiannong Liu, Heidi S. Wirtz, David T. Gilbertson, Kerry Cooper, Kimberly M. Nieman, Allan J. Collins, and Brian D. Bradbury

ESRD and Chronic Dialysis

1422 Ultrafiltration Rates and the Quality Incentive Program: Proposed Measure Definitions and Their Potential Dialysis Facility Implications
Jennifer E. Flythe, Magdalene M. Assimon, Julia B. Wenger, and Lily Wang
See related editorial on page 1330.

1434 Peripherally Inserted Central Catheters and Hemodialysis Outcomes
Rita L. McGill, Robin Ruthazer, Klemens B. Meyer, Dana C. Miskulin, and Daniel E. Weiner
See related editorial on page 1333.

Genetics

1441 Genetic, Clinical, and Pathologic Backgrounds of Patients with Autosomal Dominant Alport Syndrome

Nephrolithiasis

1450 Intestinal Calcium Absorption among Hypercalciuric Patients with or without Calcium Kidney Stones
Giuseppe Vezzoli, Lorenza Macrina, Alessandro Rubinacci, Donatella Spotti, and Teresa Arcidiacono

Ethics Series

1456 Update on Ethical Issues in Pediatric Dialysis: Has Pediatric Dialysis Become Morally Obligatory?
Aaron G. Wightman and Michael A. Freeman

Mini-Review

1463 Ultrafiltration Therapy for Heart Failure: Balancing Likely Benefits against Possible Risks
Amir Kazory
Special Feature

1472 Climate Change and the Emergent Epidemic of CKD from Heat Stress in Rural Communities: The Case for Heat Stress Nephropathy


Moving Points in Nephrology

1484 New Insights into Dialysis Vascular Access: Introduction

Michael Allon


Karen Woo and Charmaine E. Lok

1495 New Insights into Dialysis Vascular Access: Impact of Preexisting Arterial and Venous Pathology on AVF and AVG Outcomes

Roberto I. Vazquez-Padron and Michael Allon


Timmy Lee and Sanjay Misra

Erratum

1513 Correction

On the Cover

What’s the diagnosis? This 31-year-old patient with ARF underwent an uneventful kidney biopsy with two punctures that disclosed thrombotic microangiopathy. Post biopsy ultrasound examination showed no evidence of perirenal hematoma. Three days later, during plasmapheresis and after a single infusion of heparin 5000 U, shock developed. The patient was rushed to the radiology suite where computed tomography imaging revealed a large left perirenal hematoma and contrast-agent extravasation could be seen. Selective angiography confirmed two puncture sites with contrast extravasation (A). Our talented neuroradiologist quickly placed two coils (B), which stabilized the patient and saved the kidney. The experience illustrates two important points: (1) bleeding after biopsies can be delayed; (2) novel immediate non-surgical treatments are available. We would term this therapeutic structural motif as an example of a “coiled-coil” domain. (Images and text provided by Saban Elitok, MD, Steffen Reissberg, MD, Michael Schnitzbauer, and Friedrich C. Luft, Helios Klinikum-Berlin and Experimental and Clinical Research Center, Berlin, Germany)