Editorials

1  Do Health Outcomes Vary by Profit Status of Hemodialysis Units?
Barry M. Straube
See related article on page 73

3  Should Buttonhole Cannulation Be Discontinued?
Louise M. Moist and Gihad E. Nesrallah
See related article on page 110

6  Sexual Inactivity among Hemodialysis Patients: The Patients’ Perspective
Fredric O. Finkelstein and Susan H. Finkelstein
See related article on page 128

8  Generalizability of Genetic Findings Related to Kidney Function and Albuminurria
Afshin Parsa and Barry I. Freedman
See related article on page 150

Original Articles

Acute Kidney Injury / Acute Renal Failure
12  Incidence, Outcomes, and Comparisons across Definitions of AKI in Hospitalized Individuals
Xiaoxi Zeng, Gearoid M. McMahon, Steven M. Brunelli, David W. Bates, and Sushrut S. Waikar

21  Tubulointerstitial Nephritis with Uveitis in Chinese Adults
Cui Li, Tao Su, Rong Chu, Xiaomei Li, and Li Yang

Chronic Kidney Disease
29  Recognition of CKD After the Introduction of Automated Reporting of Estimated GFR in the Veterans Health Administration

37  Plasma and Urinary Amino Acid Metabolomic Profiling in Patients with Different Levels of Kidney Function
Flore Duranton, Ulrika Lundin, Nathalie Gayrard, Harald Mischak, Michel Aparicio, Georges Mourad, Jean-Pierre Daurès, Klaus M. Weinberger, and Angel Argilès

Clinical Immunology and Pathology
46  C3 Glomerulopathy: Clinicopathologic Features and Predictors of Outcome

Clinical Nephrology
54  New Combined Serum Creatinine and Cystatin C Quadratic Formula for GFR Assessment in Children
Hassib Chehade, Francois Cachat, Anne-Sophie Jannot, Blaise-Julien Meyrat, Dolores Mosig, Daniel Bardy, Paloma Parvex, and Eric Girardin
Original Articles (Continued)

Diabetes and The Kidney

64 Change in Albuminuria and eGFR Following Insulin Sensitization Therapy Versus Insulin Provision Therapy in the BARI 2D Study
Phyllis August, Regina M. Hardison, Fadi Hage, Oscar C. Marroquin, Janet B. McGill, Yves Rosenberg, Michael Steffes, Barry M. Wall, and Mark Molitch, for the BARI 2D Study Group

Epidemiology and Outcomes

73 Comparison of Hospitalization Rates among For-Profit and Nonprofit Dialysis Facilities
Lorien S. Dalrymple, Kirsten L. Johansen, Patrick S. Romano, Glenn M. Chertow, Yi Mu, Julie H. Ishida, Barbara Grimes, George A. Kaysen, and Danh V. Nguyen
See related editorial on page 1

82 Near-Term Prediction of Sudden Cardiac Death in Older Hemodialysis Patients Using Electronic Health Records
Benjamin A. Goldstein, Tara I. Chang, Aya A. Mitani, Themistocles L. Assimes, and Wolfgang C. Winkelmayer

92 Adult Height in Patients with Advanced CKD Requiring Renal Replacement Therapy during Childhood
Jérôme Harambat, Marjolein Bonthuis, Karlijn J. van Stralen, Gema Ariceta, Nina Battelino, Anna Bjerre, Timo Jahnhukainen, Valérie Leroy, György Reusz, Ana R. Sandes, Manish D. Sinha, Jaap W. Groothoff, Christian Combe, Kitty J. Jager, Enrico Verrina, and Franz Schaefer, for the ESPN/ERA-EDTA Registry

100 Dietary Phthalates and Low-Grade Albuminuria in US Children and Adolescents
Leonardo Trasande, Sheela Sathyanarayana, and Howard Trachtman

ESRD and Chronic Dialysis

110 Buttonhole Cannulation and Clinical Outcomes in a Home Hemodialysis Cohort and Systematic Review
Christopher A. Muir, Sradha S. Kotwal, Carmel M. Hawley, Kevan Polkinghorne, Martin P. Gallagher, Paul Snelling, and Meg J. Jardine
See related editorial on page 3

120 IGF-1 and Survival in ESRD
Ting Jia, Thiane Gama Axelsson, Olof Heimbürger, Peter Bárány, Bengt Lindholm, Peter Stenvinkel, and Abdul Rashid Qureshi

128 Sexual Function, Activity, and Satisfaction among Women Receiving Maintenance Hemodialysis
Maria K. Mor, Mary Ann Sevick, Anne Marie Shields, Jamie A. Green, Paul M. Palevsky, Robert M. Arnold, Michael J. Fine, and Steven D. Weisbord
See related editorial on page 6

135 Association between GFR Estimated by Multiple Methods at Dialysis Commencement and Patient Survival
Muh Geot Wong, Carol A. Pollock, Bruce A. Cooper, Pauline Branley, John F. Collins, Jonathan C. Craig, Joan Kesselhut, Grant Luxton, Andrew Pilmore, David C. Harris, and David W. Johnson

143 Pregnancy Outcomes According to Dialysis Commencing Before or After Conception in Women with ESRD
Shilpanjali Jesudason, Blair S. Grace, and Stephen P. McDonald

Genetics

150 Generalization of Associations of Kidney-Related Genetic Loci to American Indians
Nora Franceschini, Karin Haack, Laura Almasy, Sandra Laston, Elisa T. Lee, Lyle G. Best, Richard R. Fabsitz, Jean W. MacCluer, Barbara V. Howard, Jason G. Umans, and Shelley A. Cole
See related editorial on page 8

Nephrolithiasis

159 Body Fat Content and Distribution and Urinary Risk Factors for Nephrolithiasis
Federica Pigna, Khashayar Sakaee, Beverley Adams-Huet, and Naim M. Maalouf

Attending Rounds

166 Painful Skin Ulcers in a Hemodialysis Patient
Stuart M. Sprague
Ethics Series

174  Dying on Dialysis: The Case for a Dignified Withdrawal
    Rebecca J. Schmidt and Alvin H. Moss

Mini-Reviews

181  Principles of Separation: Indications and Therapeutic Targets for Plasma Exchange
    Mark E. Williams and Rasheed A. Balogun

191  Acetaminophen Toxicity and 5-Oxoproline (Pyroglutamic Acid): A Tale of Two Cycles, One an ATP-Depleting Futile Cycle and the Other a Useful Cycle
    Michael Emmett

Special Feature

201  Cutaneous Manifestations of ESRD
    Timur A. Galperin, Antonia J. Cronin, and Kieron S. Leslie

eJournal club provides a timely and interactive electronic journal club experience by offering a forum in which CJASN readers have the opportunity to converse with the featured study authors. Visit ejc.cjasn.org to learn more.

On the Cover

What’s the diagnosis? A 42-year-old male with a history of bilateral deep vein thrombosis due to antiphospholipid antibody syndrome (APLS) on warfarin presented to the hospital with a lower leg ulcer and cellulitis and was treated with antibiotics. He presented a few days later with right-sided flank pain and was found to have hematuria and nephrotic range proteinuria. The initial CT scan was positive for perirenal stranding on the right. While in the hospital, he developed severe abdominal pain, nausea and vomiting. Two days after admission he had a repeat CT scan, which demonstrated periaortic stranding consistent with aortitis. The cover image demonstrates this CT scan with contrast (coronal cut through the abdomen). The two midline structures depicted are the inferior vena cava and the aorta. Of note is the segmental attenuation and thickening of the infrarenal aortic wall (green arrows in image below) and periaortic fat infiltration. On kidney biopsy, he was found to have acute thrombotic angiopathy with active intravascular thrombosis, which confirmed the diagnosis of catastrophic antiphospholipid antibody syndrome. After 5 sessions of plasma exchange as well as high dose prednisone, the radiologic findings completely resolved. “Aortitis” is a pathologic term that refers to an abnormal inflammation of the aortic wall. Clinical features of aortitis are nonspecific and may include fever, abdominal or chest pain, and vascular insufficiency. A wide spectrum of infectious, inflammatory, and idiopathic conditions may result in the development of aortitis. Although Takayasu arteritis and giant cell arteritis are the most common rheumatologic causes of aortitis, other systemic diseases, such as rheumatoid arthritis, systemic lupus erythematosus, Behçet disease, and Cogan syndrome, may also be associated with aortitis. Aortitis has only rarely been described in association with APLS. (Image and text provided by Dr. Adina Voiculescu, Brigham and Women’s Hospital, Boston, MA)