Editorials

463 Fistulas First—But Can They Last?
Laura M. Dember
See related article on page 575.

465 Dialysis Survival after Graft Loss: Are We Finally Comparing “Apples to Apples”?
Louise Moist
See related article on page 582.

Original Articles

Acute Renal Failure

467 Effluent Volume in Continuous Renal Replacement Therapy Overestimates the Delivered Dose of Dialysis
Rolando Claure-Del Granado, Etienne Macedo, Glenn M. Chertow, Sharon Soroko, Jonathan Himmelfarb, T. Alp Ikizler, Emil P. Paganini, and Ravindra L. Mehta

Chronic Kidney Disease

476 Neutrophil Gelatinase-Associated Lipocalin in the Diagnosis of Type 1 Cardio-Renal Syndrome in the General Ward
Margarida Alvelos, Rodrigo Pimentel, Elika Pinho, André Gomes, Patricia Lourenço, Maria José Teles, Pedro Almeida, João Tiago Guimarães, and Paulo Bettencourt

482 Folic Acid Therapy and Cardiovascular Disease in ESRD or Advanced Chronic Kidney Disease: A Meta-Analysis
Xianhui Qin, Yong Huo, Craig B. Langman, Fanfan Hou, Yundai Chen, Debona Matossian, Xiping Xu, and Xiaoabin Wang

489 Factors Affecting Employment at Initiation of Dialysis
Rebecca J. Muehrer, Dori Schatell, Beth Witten, Ronald Gangnon, Bryan N. Becker, and R. Michael Hofmann

497 Implications of the CKD-EPI GFR Estimation Equation in Clinical Practice

505 Monocyte Angiotensin Converting Enzyme Expression May Be Associated with Atherosclerosis Rather than Arteriosclerosis in Hemodialysis Patients
Christof Ulrich, Eric Seibert, Gunnar H. Heine, Danilo Fliser, and Matthias Girndt

512 Cardiorespiratory Fitness Is Independently Associated with 25-Hydroxyvitamin D in Chronic Kidney Disease
William G. Petchey, Erin J. Howden, David W. Johnson, Carmel M. Hawley, Thomas Marwick, and Nicole M. Isbel

Clinical Nephrology

519 Microvolt T-Wave Alternans in End-Stage Renal Disease Patients—Associations with Uremic Cardiomyopathy
Rajan K. Patel, Patrick B. Mark, Crawford Halliday, Tracey Steedman, Henry J. Dargie, Stuart M. Cobbe, and Alan G. Jardeine

528 Determinants and Prognostic Significance of Electrocardiographic Left Ventricular Hypertrophy Criteria in Chronic Kidney Disease
Rajiv Agarwal and Robert P. Light
Decline in Residual Renal Function in Automated Compared with Continuous Ambulatory Peritoneal Dialysis

Wieneke Marleen Michels, Marion Verduijn, Diana C. Grootendorst, Saskia le Cessie, Elisabeth Wilhelmina Boeschoten, Friedo Wilhelm Dekker, and Raymond Theodorus Krediet, for the NECOSAD Study Group

Blood Pressure Control and Left Ventricular Mass in Children with Chronic Kidney Disease

Manish D. Sinha, Shane M. Tibby, Pernille Rasmussen, Debbie Rawlins, Charles Turner, R. Neil Dalton, Christopher J.D. Reid, Susan P.A. Rigden, Caroline J. Booth, and John M. Simpson

Which Creatinine and Cystatin C Equations Can Be Reliably Used in Children?

Justine Bacchetta, Pierre Cochat, Nicolas Rognant, Bruno Ranchin, Aoumeur Hadj-Aissa, and Laurence Dubourg

Dialysis

Peritoneal Albumin and Protein Losses Do Not Predict Outcome in Peritoneal Dialysis Patients

Olga Balafa, Nynke Halbesma, Dirk G. Struijk, Friedo W. Dekker, and Raymond T. Krediet

Serum Bilirubin Links UGT1A1*28 Polymorphism and Predicts Long-Term Cardiovascular Events and Mortality in Chronic Hemodialysis Patients

Ying-Hwa Chen, Szu-Chun Hung, and Der-Cherng Tarng

Decreased Cumulative Access Survival in Arteriovenous Fistulas Requiring Interventions to Promote Maturation

Timmy Lee, Ahsan Ullah, Michael Allon, Paul Succop, Mahmoud El-Khatib, Rino Munda, and Prabir Roy-Chaudhury

Impact of Dialysis Modality on Survival after Kidney Transplant Failure

Jeffrey Perl, Omar Hasan, Joanne M. Bargman, Depeng Jiang, Yingbo Na, John S. Gill, and S. Vanita Jassal

See related editorial on page 465.

Peritoneal Membrane Phosphate Transport Status: A Cornerstone in Phosphate Handling in Peritoneal Dialysis

Ana Paula Bernardo, Sebastián Azorín Contesse, Maria Auxiliadora Bajo, Anabela Rodrigues, Gloria Del Peso, Marta Ossorio, António Cabrita, and Rafael Selgas

Assessing Creatinine Clearance from Modification of Diet in Renal Disease Study Equations in the ADEMEX Cohort: Limitations and Potential Applications

James A. Sloand, John K. Leypoldt, Bruce F. Culleton, Mary E. Gellens, Ramon Paniagua, Dante Amato, and Edward F. Vonesh

Satisfaction with Renal Replacement Therapy and Education: The American Association of Kidney Patients Survey


Epidemiology and Outcomes

End-Stage Renal Disease Status and Critical Illness in the Elderly

Manish M. Sood, Dan Roberts, Paul Komenda, Joe Bueti, Martina Reslerova, Julie Mojica, and Claudio Rigatto

Prescribed Dietary Phosphate Restriction and Survival among Hemodialysis Patients

Katherine E. Lynch, Rebecca Lynch, Gary C. Curhan, and Steven M. Brunelli

Hereditary Disease

Recurrent Deep Intronic Mutations in the SLC12A3 Gene Responsible for Gitelman’s Syndrome

Yi-Fen Lo, Kandai Nozu, Kazumoto Iijima, Takahiro Morishita, Che-Chung Huang, Sung-Sen Yang, Huey-Kang Sytwu, Yu-Wei Fang, Min-Hua Tseng, and Shih-Hua Lin

Potentially Modifiable Factors Affecting the Progression of Autosomal Dominant Polycystic Kidney Disease

Vicente E. Torres, Jared J. Grantham, Arlene B. Chapman, Michal Mrug, Kyongtae T. Bae, Bernard F. King Jr., Louis H. Wetzel, Diego Martin, Mark E. Lockhart, William M. Bennett, Marva Moxey-Mims, Kaleab Z. Abebe, Yan Lin, and James E. Bost, for the Consortium for Radiologic Imaging Studies of Polycystic Kidney Disease (CRISP)
Hypertension

Assocation between Hemoglobin Level and Endothelial Function in Uncomplicated, Untreated Hypertensive Patients
Raffaele Maio, Angela Sciacqua, Rosamaria Bruni, Alessandra Pascale, Giuseppe Carullo, Paola E. Scarpino, Desirée Addesi, Ines Spinelli, Giulia Galiano Leone, and Francesco Perticone

Renal Transplantation

Nonlinear Relationship between Mycophenolate Mofetil Dose and Mycophenolic Acid Exposure: Implications for Therapeutic Drug Monitoring
Brenda C.M. de Winter, Ron A.A. Mathot, Ferdi Sombogaard, Arnold G. Vulto, and Teun van Gelder

In-Depth Reviews

The Efficacy and Safety of the 3-Hydroxy-3-methylglutaryl-CoA Reductase Inhibitors in Chronic Kidney Disease, Dialysis, and Transplant Patients
Ali Olyaei, Erin Greer, Rowena Delos Santos, and Jose Rueda

Henoch-Schönlein Purpura Nephritis: Pathophysiology, Treatment, and Future Strategy
Jean-Claude Davin

Special Feature

Tacrolimus-Induced Neutropenia in Renal Transplant Recipients
Anja De Rycke, Daan Dierickx, and Dirk R. Kuypers

On the Cover
This periodic acid-Schiff stained section shows an arteriole with “onion skin” lesion, characterized by extensive remodeling and concentric thickening of the vessel wall, with duplication of the cells and matrix layers of the media, intimal thickening, occlusion and complete obliteration of the vessel lumen. These severe vascular changes result from repetitive injury and repair of the vessel walls and have been classically described in malignant hypertension; however, the changes can be observed in a number of other conditions associated with a primary form of vascular injury, including scleroderma, undifferentiated connective tissue disease, antiphospholipid antibody syndrome, healed hemolytic uremic syndrome, and the use of drugs with vascular toxicity (such as cocaine, amphetamines, VEGF inhibitors). (Image and text provided by Dr. Vanesa Bijol, Brigham and Women’s Hospital)