Editorials

1055 Dialysis and Mortality: Does It Matter Where You Live?
Rudolph A. Rodriguez
See related article on page 1121.

1058 BMD and Fracture Risk in CKD: Where Should We Go from Here?
Thomas L. Nickolas
See related article on page 1130.

1061 Fibroblast Growth Factor 23, Cardiovascular Disease, and Inflammation
Leonard Stern
See related article on page 1155.

Original Articles

Acute Kidney Injury /Acute Renal Failure

1063 Health-Related Quality of Life as a Predictor of Mortality among Survivors of AKI
Vilija R. Joyce, Mark W. Smith, Kirsten L. Johansen, Mark L. Unruh, Andrew M. Siroka, Theresa Z. O’Connor, and Paul M. Palevsky, for the Veteran Affairs/National Institutes of Health Acute Renal Failure Trial Network

1071 Use of Postoperative Creatinine to Predict Sustained Kidney Injury in Patients Undergoing Mesothelioma Surgery
K. Annette Mizuguchi, Aya Mitani, Sushrut S. Waikar, Peter Ireland, Christia Panizales, Gretchen Deluke, David J. Sugarbaker, Joseph V. Bonventre, and Gyorgy Frendl

Chronic Kidney Disease

1079 CKD and Coronary Collateral Supply in Individuals Undergoing Coronary Angiography after Myocardial Infarction
David M. Charytan, Noam M. Stern, and Laura Mauri

1087 Detected Renal Cysts Are Tips of the Iceberg in Adults with ADPKD
Jared J. Grantham, Sumanth Mulamalla, Connor J. Grantham, Darren P. Wallace, Larry T. Cook, Louis H. Wetzel, Timothy A. Fields, and K. T. Bae

1094 Homelessness and CKD: A Cohort Study
Yoshio N. Hall, Andy I. Choi, Jonathan Himmelfarb, Glenn M. Chertow, and Andrew B. Bindman

Clinical Nephrology

1103 Comparative Effects of Low-Carbohydrate High-Protein Versus Low-Fat Diets on the Kidney
Allon N. Friedman, Lorraine G. Ogden, Gary D. Foster, Samuel Klein, Richard Stein, Bernard Miller, James O. Hill, Carrie Brill, Brooke Bailer, Diane R. Rosenbaum, and Holly R. Wyatt
Original Articles (Continued)

1112 A Randomized Controlled Crossover Trial with Delayed-Release Cysteamine Bitartrate in Nephropathic Cystinosis: Effectiveness on White Blood Cell Cystine Levels and Comparison of Safety
Craig B. Langman, Larry A. Greenbaum, Minnie Sarwal, Paul Grimm, Patrick Niaudet, Georges Deschênes, Elisabeth Cornelissen, Denis Morin, Pierre Cochat, Debora Matossian, Segolene Gaillard, Mary Jo Bagger, and Patrice Rioux

Epidemiology and Outcomes

1121 Rural and Micropolitan Residence and Mortality in Patients on Dialysis
Saugar Maripuri, Patrick Arbogast, T. Alp Ikizler, and Kerri L. Cavanaugh
See related editorial on page 1055.

1130 Bone Mineral Density and Fracture Risk in Older Individuals with CKD
Robert H. Yenchek, Joachim H. Ix, Michael G. Shlipak, Douglas C. Bauer, Nahid J. Rianon, Stephen B. Kritchevsky, Tamara B. Harris, Anne B. Newman, Jane A. Cauley, and Linda F. Fried, for the Health, Aging, and Body Composition Study
See related editorial on page 1058.

1137 Subclinical Cardiac Abnormalities and Kidney Function Decline: The Multi-Ethnic Study of Atherosclerosis
Meyeon Park, Michael G. Shlipak, Ronit Katz, Subhashish Agarwal, Joachim H. Ix, Chi-yuan Hsu, and Carmen A. Peralta

ESRD and Chronic Dialysis

1145 Changes in Patient and Technique Survival over Time among Incident Peritoneal Dialysis Patients in Canada
Jeffrey Perl, Ron Wald, Joanne M. Bargman, Yingbo Na, S. Vanita Jassal, Arsh K. Jain, Louise Moist, and Sharon J. Nessim

Mineral Metabolism/Bone Disease

1155 Fibroblast Growth Factor 23 and Inflammation in CKD
Jair Munoz Mendoza, Tamara Isakova, Ana C. Ricardo, Huiliang Xie, Sankar D. Navaneethan, Amanda H. Anderson, Lydia A. Bazzano, Dawei Xie, Matthias Kretzler, Lisa Nessel, L. Lee Hamm, Lavinia Negrea, Mary B. Leonard, Dominic Raj, and Myles Wolf, for the Chronic Renal Insufficiency Cohort
See related editorial on page 1061.

Renal Transplantation

1163 Differential Outcomes of Expanded-Criteria Donor Renal Allografts According to Recipient Age

Attending Rounds

1172 A Woman with Recurrent Calcium Phosphate Kidney Stones
David S. Goldfarb

In-Depth Review

1179 Clinical Consequences of Mutations in Sodium Phosphate Cotransporters
Eleanor Lederer and Ken-ichi Miyamoto

Special Features

1188 Dimitrios G. Oreopoulos—An Appreciation
Joanne M. Bargman
On the Cover

What’s the diagnosis? Urine sediment examination under Bright field microscopy (400×) reveals ovoid and biconcave crystals within a cast, as seen in the upper left panel. The crystals within the cast are strongly birefringent under polarized light microscopy (upper right panel). This finding is consistent with calcium oxalate monohydrate crystal casts in the urine of a patient with primary hyperoxaluria type 1. Kidney biopsy reveals intratubular calcium oxalate crystals within the lumens of the tubules on Bright field microscopy (400×) in the left lower panel and strongly birefringent crystals on polarized light microscopy (400×) in the right lower panel. The urinary sediment findings nicely reflected the kidney biopsy findings. Primary hyperoxaluria type 1 is a genetic disorder that has deficiency of the hepatic peroxisomal enzyme alanine-glyoxylate-aminotransferase. This disorder is characterized by excessive production of oxalate results in increased plasma levels and hyperoxaluria. In the setting of hyperoxaluria, calcium-oxalate crystals precipitate in the renal tubular lumens and interstitium. Both acute and chronic oxalate nephropathy and calcium-oxalate stones develop from the associated hyperoxaluria. Patients frequently develop ESRD, requiring renal replacement therapy. A combined liver-kidney transplant is required to correct hyperoxaluria and prevent loss of the renal allograft. (Images and text provided by José Antonio Tesser Poloni, Irmandade da Santa Casa de Misericórdia de Porto Alegre, Porto Alegre, Brazil, and Mark A. Perazella, Yale University, New Haven, Connecticut)