Patient Voice

**1133** Person-Centered Approach to Deciding on Long-Term Dialysis  
Denise Eilers  
See related article on page 1188.

Editorials

**1135** Genetic Contribution to Risk for Diabetic Kidney Disease  
Stephen S. Rich  
See related article on page 1162.

**1138** Meeting the Palliative Care Needs of Maintenance Hemodialysis Patients: Beyond the Math  
Vanessa Grubbs  
See related articles on pages 1172 and 1180.

**1140** Drug-Coated Balloon Angioplasty for Hemodialysis Fistula Maintenance  
Bharat Sachdeva and Kenneth Abreo  
See related article on page 1215.

**1142** Expand the Pool of Living Donors for Kidney Transplantation  
Jayme E. Locke  
See related article on page 1234.

Original Articles

Chronic Kidney Disease

**1144** Risks and Benefits of Direct Oral Anticoagulants across the Spectrum of GFR among Incident and Prevalent Patients with Atrial Fibrillation  
Jung-Im Shin, Alex Secora, G. Caleb Alexander, Lesley A. Inker, Josef Coresh, Alex R. Chang, and Morgan E. Grams

Cystic Kidney Disease

**1153** Long-Term Administration of Tolvaptan in Autosomal Dominant Polycystic Kidney Disease  
Marie E. Edwards, Fouad T. Chebib, Maria V. Irazabal, Troy G. Oftie, Lisa A. Bungum, Andrew J. Metzger, Sarah R. Senum, Marie C. Hogan, Ziad M. El-Zoghby, Timothy L. Kline, Peter C. Harris, Frank S. Czerwiec, and Vicente E. Torres

Diabetes and the Kidney

**1162** COL4A3 Gene Variants and Diabetic Kidney Disease in MODY  
Yiting Wang, Junlin Zhang, Yingwang Zhao, Shanshan Wang, Jie Zhang, Qianqian Han, Rui Zhang, Ruikun Guo, Hanyu Li, Li Li, Tingli Wang, Xi Tang, Changzheng He, Geer Teng, Weiyue Gu, and Fang Liu  
See related editorial on page 1135.

Geriatric and Palliative Nephrology

**1172** End of Life, Withdrawal, and Palliative Care Utilization among Patients Receiving Maintenance Hemodialysis Therapy  
Joy Chieh-Yu Chen, Bjorg Thorsteinsdottir, Lisa E. Vaughan, Molly A. Feely, Robert C. Albright, Macaulay Onuigbo, Suzanne M. Norby, Christy L. Gossett, Margaret M. D’Uscio, Amy W. Williams, John J. Dillon, and LaTonya J. Hickson  
See related editorial on page 1138.
Geriatric and Palliative Nephrology (Continued)

1180 Association of Inpatient Palliative Care with Health Care Utilization and Postdischarge Outcomes among Medicare Beneficiaries with End Stage Kidney Disease
Alexis Chettiar, Maria Montez-Rath, Sai Liu, Yoshio N. Hall, Ann M. O’Hare, and Manjula Kurella Tamura
See related editorial on page 1138.

1188 Characterizing Approaches to Dialysis Decision Making with Older Adults: A Qualitative Study of Nephrologists
Keren Ladin, Renuka Pandya, Ronald D. Perrone, Klemens B. Meyer, Allison Kannam, Rohini Loke, Tira Oskoui, Daniel E. Weiner, and John B. Wong
See related Patient Voice on page 1133.

Maintenance Dialysis

1197 Cost of Dialysis Therapy by Modality in Manitoba
Alain Beaudry, Thomas W. Ferguson, Claudio Rigatto, Navdeep Tangri, Sandi Dumanski, and Paul Komenda

1204 Intravenous Epoetin Alfa-epbx versus Epoetin Alfa for Treatment of Anemia in End-Stage Kidney Disease
Steven Fishbane, Bhupinder Singh, Seema Kumbhat, Wayne A. Wisemandle, and Nancy E. Martin

1215 Drug Coated Balloon Angioplasty in Failing AV Fistulas: A Randomized Controlled Trial
Scott O. Trerotola, Jeffrey Lawson, Prabir Roy-Chaudhury, and Theodore F. Saad, for the Lutonix AV Clinical Trial Investigators
See related editorial on page 1140.

1225 Alteration of HDL Protein Composition with Hemodialysis Initiation
Ke Wang, Leila R. Zelnick, Andrew N. Hoofnagle, Tomas Vaisar, Clark M. Henderson, Peter B. Imrey, Cassianne Robinson-Cohen, Ian H. de Boer, Yan-Ting Shiu, Jonathan Himmellårb, Gerald J. Beck, and Bryan Kestenbaum, on behalf of the HFM Study

Transplantation

1234 ABO-Incompatible Kidney Transplant Outcomes: A Meta-Analysis
Annelies E. de Weerd and Michiel G.H. Betjes
See related editorial on page 1142.

Research Letter

1244 Metabolic Changes with Base-Loading in CKD

Erratum

1247 Correction

Kidney Case Conference: Attending Rounds

1248 Communication Strategies to Address Conflict about Dialysis Decision Making for Critically Ill Patients
Jane O. Schell and Robert A. Cohen

Kidney Case Conference: Nephrology Quiz and Questionnaire

1251 Thrombotic Microangiopathy in a Transplant Recipient
Venkat Ram Rakesh Mundra and Roslyn Bernstein Mannon

Nephropharmacology for the Clinician

1254 Clinical Pharmacokinetics in Kidney Disease: Application to Rational Design of Dosing Regimens
Darren M. Roberts, Jacob Sevastos, Jane E. Carland, Sophie L. Stocker, and Tom N. Lea-Henry
A 62 year-old woman with a history of hypertension, diabetes and breast cancer s/p bilateral mastectomy presented with fatigue, weight loss, decrease appetite and bilateral maculopapular rash over her knees. Her BP was 123/71 mm Hg. Her labs revealed pancytopenia with WBC 3.5 K/cu mm, hemoglobin 8.2 g/dL and platelet count of 84 K/ cu mm. Other labs were significant for sodium 134 mEq/L, potassium 4.8 mEq/L, BUN 46 mg/dL and serum creatinine of 3.6mg/dL (baseline 0.9mg/dl). Urinalysis revealed proteinuria with no hematuria or pyuria. Urine protein/creatinine ratio was 2.53. All serologies were negative. Kidney ultrasound revealed a 13.4 cm right kidney and 13.1 cm left kidney with increased echogenicity bilaterally. Kidney biopsy showed interstitial infiltration of myelocytic cells.

Kidney involvement including dense infiltration of kidneys is seen in up to 34% of patients diagnosed with AML, acute lymphocytic leukemia and non-Hodgkin’s lymphoma. Most cases of kidney involvement are seen in patients after a diagnosis of AML has been confirmed by bone marrow biopsy in contrast to our case where dense infiltration of the kidneys with myeloid blasts was noted first leading to bone marrow biopsy.

(Images and text provided by Alice Chedid, MD; Mohamad Hanouneh, MD; and Duvuru Geetha, MBBS, MD, Johns Hopkins University, Department of Medicine, Division of Nephrology, Baltimore, Maryland)