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. Ofstie, 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.
Original Articles (Continued)

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 Himmellärb, 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
Evidence-Based Nephrology

1264 Complications of Immunosuppression in Glomerular Disease
J. Ashley Jefferson
See related commentary on page 1276.

Commentary

1276 Commentary on Complications of Immunosuppressive Treatments for Glomerulonephritis
Bryan R. Kestenbaum and Stephen L. Seliger
See related article on page 1264.

Perspectives

1278 Urgent Start Peritoneal Dialysis: Defining What It Is and Why It Matters
Peter G. Blake and Arsh K. Jain

1280 Opportunities for Increasing the Rate of Preemptive Kidney Transplantation
Steven Fishbane and Vinay Nair

1283 Organ Donation and the Principles of Gift Law
Alexandra K. Glazier

1285 Rebuilding the Pipeline of Investigators in Nephrology Research in the United States
Jenna M. Norton, Christian J. Ketchum, Tracy L. Rankin, and Robert A. Star

1288 Telehealth and Home Dialysis: A New Option for Patients in the United States
Scott D. Bieber and Daniel E. Weiner

Reviews

1291 Proximal Tubular Secretory Clearance: A Neglected Partner of Kidney Function
Ke Wang and Bryan Kestenbaum

1297 Mechanisms, Clinical Implications, and Treatment of Intradialytic Hypotension
Patrick B. Reeves and Finnian R. Mc Causland

On the Cover
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 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 myeloid cells. A bone marrow biopsy confirmed the diagnosis of acute myeloid leukemia (AML). Patient received chemotherapy for AML and her kidney function improved to baseline and did not require any kidney replacement therapy. Kidney ultrasound showed enlarged kidneys (Figure 1). Light microscopy showed large aggregates of atypical cells with irregular nuclei, expanding the interstitium (Figure 2). Immunohistochemical stain for myelocytic cells (CD 33) was strongly positive (Figure 3). 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)