

# CJASN

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## Patient Voice

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### 1133 Person-Centered Approach to Deciding on Long-Term Dialysis

*Denise Eilers*

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### 1135 Genetic Contribution to Risk for Diabetic Kidney Disease

*Stephen S. Rich*

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### 1138 Meeting the Palliative Care Needs of Maintenance Hemodialysis Patients: Beyond the Math

*Vanessa Grubbs*

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### 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

*Jayne E. Locke*

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## Original Articles

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### 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*  
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*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.

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**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*  
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**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 Himmelfarb, Gerald J. Beck, and Bryan Kestenbaum, on behalf of the HFM Study*

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*Annelies E. de Weerd and Michiel G.H. Betjes*  
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*Julia J. Scialla, Landon Brown, Susan Gurley, David L. Corcoran, James R. Bain, Michael J. Muehlbauer, Sara K. O'Neal, Thomas M. O'Connell, Myles Wolf, Michal L. Melamed, Thomas H. Hostetter, and Matthew K. Abramowitz*

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*J. Ashley Jefferson*

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## Commentary

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### 1276 Commentary on Complications of Immunosuppressive Treatments for Glomerulonephritis

*Bryan R. Kestenbaum and Stephen L. Seliger*

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*Alexandra K. Glazier*

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*Ke Wang and Bryan Kestenbaum*

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*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, 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. 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)*