Patient Voices

1613 Treatment Adherence in Young Adults Receiving Kidney Replacement Therapy: A Patient Perspective
Amanda Grandinetti
See related Patient Voice editorial and article on pages 1615 and 1669, respectively.

1615 Treatment Adherence in Young Adults Receiving Kidney Replacement Therapy: A Caregiver Perspective
Pam Duquette and Kelly Helm
See related Patient Voice editorial and article on pages 1613 and 1669, respectively.

Editorials

1617 Kidney Biopsy in Hospitalized Patients with Acute Kidney Disease: Is There an Increased Risk?
Steven Darrow Weisbord
See related article on page 1633.

1619 Better Patient Ambulatory Care Experience: Does It Translate into Improved Outcomes among Patients with CKD?
Delphine S. Tuot
See related article on page 1659.

1621 ACCORDION: Ensuring That We Hear the Music Clearly
Muh Geot Wong, Hiddo J.L. Heerspink, and Vlado Perkovic
See related article on page 1693.

1624 Increasing Protection of Dialysis Patients against Influenza
Megan C. Lindley and David K. Kim
See related article on page 1703.

Original Articles

Acid/Base and Electrolyte Disorders

1627 Urea for the Treatment of Hyponatremia
Helbert Rondon-Berrios, Srijan Tandukar, Maria K. Mor, Evan C. Ray, Filitsa H. Bender, Thomas R. Kleyman, and Steven D. Weisbord

Acute Kidney Injury and ICU Nephrology

1633 Kidney Biopsy–Related Complications in Hospitalized Patients with Acute Kidney Disease
Dennis G. Moledina, Randy L. Luciano, Lidiya Kukova, Lili Chan, Aparna Saha, Girish Nadkarni, Sandra Alfano, F. Perry Wilson, Mark A. Perazella, and Chirag R. Parikh
See related editorial on page 1617.

Chronic Kidney Disease

1641 End-Stage Kidney Disease following Surgical Management of Kidney Cancer
Robert J. Ellis, Daniel P. Edey, Sharon J. Del Vecchio, Megan McStea, Scott B. Campbell, Carmel M. Hawley, David W. Johnson, Christudas Morais, Susan J. Jordan, Ross S. Francis, Simon T. Wood, Glenda C. Gobe, and Cancer Alliance Queensland
Chronic Kidney Disease (Continued)

1649 Chronic Kidney Disease (Continued)

1659 Patient Experience with Primary Care Physician and Risk for Hospitalization in Hispanics with CKD
Esteban A. Cedillo-Couvert, Jesse Y. Hsu, Ana C. Ricardo, Michael J. Fischer, Ben S. Gerber, Edward J. Horwitz, John W. Kusek, Eva Lustigova, Amada Renteria, Sylvia E. Rosas, Mildra Saunders, Daohang Sha, Anne Slaven, and James P. Lash, on behalf of the CRIC Study Investigators
See related editorial on page 1619.

Clinical Nephrology

1669 Associations with Wellbeing and Medication Adherence in Young Adults Receiving Kidney Replacement Therapy
Alexander James Hamilton, Fergus J. Caskey, Anna Casula, Carol D. Inward, and Yoav Ben-Shlomo
See related Patient Voice editorials on pages 1613 and 1615.

Cystic Kidney Disease

1680 Kidney Function Reserve Capacity in Early and Later Stage Autosomal Dominant Polycystic Kidney Disease
A. Lianne Messchendorp, Marco van Londen, Jacob M. Taylor, Martin H. de Borst, Gerjan Navis, Niek F. Casteleijn, Carlo A.J.M. Gaillard, Stephan J.L. Bakker, and Ron T. Gansevoort, on behalf of the DIPAK Consortium

Diabetes and the Kidney

1693 Long-Term Effects of Intensive Glycemic and Blood Pressure Control and Fenofibrate Use on Kidney Outcomes
See related editorial on page 1621.

Maintenance Dialysis

1703 High-Dose Seasonal Influenza Vaccine in Patients Undergoing Dialysis
Dana C. Miskulin, Daniel E. Weiner, Hocine Tighiouart, Eduardo K. Lacson Jr., Klemens B. Meyer, Taimur Dad, and Harold J. Manley
See related editorial on page 1624.

1712 MicroRNA-21 and Venous Neointimal Hyperplasia of Dialysis Vascular Access
Chih-Cheng Wu, Li-Jing Chen, Mu-Yang Hsieh, Chien-Ming Lo, Ming-Hsien Lin, Hsiao-En Tsai, Hsiang-Lin Song, and Jeng-Jiann Chiu

Transplantation

1721 Acute Kidney Injury in Children with Kidney Transplantation
Omar Alkandari, Lieuko Nguyen, Diane Hebert, Valerie Langlois, Natasha A. Jawa, Rulan S. Parekh, and Lisa A. Robinson

Research Letter

1730 Changes in Transfusion Coding Among Hospitalized Medicare Beneficiaries after Implementation of ICD-10
Eric D. Weinhandl and Kristine M. Kubisiak

Kidney Case Conference: How I Treat

1732 The Patient Receiving Automated Peritoneal Dialysis with Volume Overload
Emilie Trinh and Jeffrey Perl

1735 Hepatitis C Virus Infection in ESKD Patients
Marco Ladino and David Roth
On the Cover

What's the diagnosis?
A 24-year-old man was found to have kidney failure and hyperuricemia by a local doctor and was referred to have his kidney failure evaluated. He was neither obese nor hypertensive. The values of serum creatinine, estimated glomerular filtration rate (eGFR), and serum uric acid were 1.31 mg/dl, 58 ml/min/1.73 m², and 9.1 mg/dl, respectively. After one year of follow-up, a kidney biopsy was performed because there was no improvement in his kidney function. The kidney biopsy findings showed minor glomerular abnormalities, and 16 out of 46 glomeruli had global sclerosis accompanied by tubulointerstitial fibrosis. An electron microscopic study revealed a layered structure in the thick ascending limb cell at a low magnification. The layered structure was compatible with hyperplasia of the membranes of the endoplasmic reticulum at a high magnification. A genomic sequence analysis of the UMOD gene revealed a heterozygous mutation of c.707C>G (p.P236R), which is a known pathogenic variant. Febuxostat was increased to 30 mg per day, and his serum uric acid improved to 6.5 mg/dl after 1 year.

Image Descriptions:
Left panel: A layered structure was observed in the thick ascending limb cell at a low magnification.
Right panel: At a high magnification, the layered structure was compatible with hyperplasia of the membranes of the smooth endoplasmic reticulum.

Teaching points:
A heterozygous mutation in the UMOD gene causes autosomal dominant familial juvenile hyperuricemic nephropathy. In the present case, electron microscopy revealed that the transverse section of the thick ascending limb contained a transverse section of the hyperplastic endoplasmic reticulum. The hyperplastic lesion implied that the endoplasmic reticulum reacted to the accumulated mutated uromodulin and led to the definitive genetic diagnosis. Careful examination of electron microscopic images of the tubulointerstitial area might help to diagnose this disease.

(Images and text provided by Keiko Oda, MD (Department of Cardiology and Nephrology, Mie University Graduate School of Medicine, Tsu, Japan), Kan Kataiama, MD (Department of Cardiology and Nephrology, Mie University Graduate School of Medicine, Tsu, Japan), Kensuke Joh, MD (Department of Pathology, Tohoku University Graduate School of Medicine, Sendai, Japan), Eiji Ishikawa, MD (Department of Cardiology and Nephrology, Mie University Graduate School of Medicine, Tsu, Japan), Ryuiji Okamoto, MD (Department of Cardiology and Nephrology, Mie University Graduate School of Medicine, Tsu, Japan), and Masaaki Ito, MD (Department of Cardiology and Nephrology, Mie University Graduate School of Medicine, Tsu, Japan)