

# CJASN

Clinical Journal of the American Society of Nephrology

November 2017 • Vol. 12 • No. 11

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*Amar D. Bansal and Jane O. Schell*

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*Sahir Kalim and Eugene P. Rhee*

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## Original Articles

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*David Collister, Neesh Pannu, Feng Ye, Matthew James, Brenda Hemmelgarn, Betty Chui, Braden Manns, and Scott Klarenbach, on behalf of the Alberta Kidney Disease Network*

**1744 Infrequent Provision of Palliative Care to Patients with Dialysis-Requiring AKI**

*Kelly Chong, Samuel A. Silver, Jin Long, Yuanchao Zheng, V. Shane Pankratz, Mark L. Unruh, and Glenn M. Chertow*  
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**1753 Disparity between Nephrologists' Opinions and Contemporary Practices for Community Follow-Up after AKI Hospitalization**

*Divya J. Karsanji, Neesh Pannu, Braden J. Manns, Brenda R. Hemmelgarn, Zhi Tan, Kailash Jindal, Nairne Scott-Douglas, and Matthew T. James*

### Chronic Kidney Disease

**1762 Nephrology Provider Prognostic Perceptions and Care Delivered to Older Adults with Advanced Kidney Disease**

*Huzaifah Salat, Andrei Javier, Edward D. Siew, Rocio Figueroa, Loren Lipworth, Edmond Kabagambe, Aihua Bian, Thomas G. Stewart, Maie H. El-Sourady, Mohana Karlekar, Cesar Y. Cardona, T. Alp Ikizler, and Khaled Abdel-Kader*

**1771 APOL1 Risk Variants, Incident Proteinuria, and Subsequent eGFR Decline in Blacks with Hypertension-Attributed CKD**

*Teresa K. Chen, Adrienne Tin, Carmen A. Peralta, Lawrence J. Appel, Michael J. Choi, Michael S. Lipkowitz, Cheryl A. Winkler, and Michelle M. Estrella*

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### Chronic Kidney Disease (Continued)

#### 1778 Patterns of NSAIDs Use and Their Association with Other Analgesic Use in CKD

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#### 1787 Metabolomic Alterations Associated with Cause of CKD

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#### 1795 Fibroblast Growth Factor 23 and Anemia in the Chronic Renal Insufficiency Cohort Study

Rupal Mehta, Xuan Cai, Alexander Hodakowski, Jungwha Lee, Mary Leonard, Ana Ricardo, Jing Chen, Lee Hamm, James Sondheimer, Mirela Dobre, Valentin David, Wei Yang, Alan Go, John W. Kusek, Harold Feldman, Myles Wolf, and Tamara Isakova, for the CRIC Study Investigators

#### 1804 Pooled Analysis of Multiple Crossover Trials To Optimize Individual Therapy Response to Renin-Angiotensin-Aldosterone System Intervention

Sergei I. Petrykiv, Gozewijn Dirk Laverman, Frederik Persson, Liffert Vogt, Peter Rossing, Martin H. de Borst, Ronald T. Gansevoort, Dick de Zeeuw, and Hiddo J.L. Heerspink

### Maintenance Dialysis

#### 1814 Risk of Infective Endocarditis in Patients with End Stage Renal Disease

Mavish S. Chaudry, Nicholas Carlson, Gunnar H. Gislason, Anne-Lise Kamper, Marianne Rix, Vance G. Fowler Jr., Christian Torp-Pedersen, and Niels E. Bruun  
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#### 1823 Vascular Access Type and Clinical Outcomes among Elderly Patients on Hemodialysis

Timmy Lee, Mae Thamer, Qian Zhang, Yi Zhang, and Michael Allon

#### 1831 Randomized Crossover Trial of Blood Volume Monitoring–Guided Ultrafiltration Biofeedback to Reduce Intradialytic Hypotensive Episodes with Hemodialysis

Kelvin C.W. Leung, Robert R. Quinn, Pietro Ravani, Henry Duff, and Jennifer M. MacRae  
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#### 1841 Racial Differences in Home Dialysis Utilization and Outcomes in Canada

Emilie Trinh, Yingbo Na, Manish M. Sood, Christopher T. Chan, and Jeffrey Perl

### Transplantation

#### 1852 The Lived Experience of “Being Evaluated” for Organ Donation: Focus Groups with Living Kidney Donors

Camilla S. Hanson, Angelique F. Ralph, Karine E. Manera, John S. Gill, John Kanellis, Germaine Wong, Jonathan C. Craig, Jeremy R. Chapman, and Allison Tong

## Glomerular Diseases: Update for the Clinician

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#### 1862 Pregnancy and Glomerular Disease: A Systematic Review of the Literature with Management Guidelines

Kimberly Blom, Ayodele Odutayo, Kate Bramham, and Michelle A. Hladunewich

## Kidney Case Conference: Nephrology Quiz and Questionnaire

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#### 1873 Management of a Patient with Catheter-Related Bloodstream Infection

Charmaine E. Lok

## Perspectives

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#### 1878 Being Thoughtful about Desensitization

Richard N. Formica Jr. and Sanjay Kulkarni

### 1881 Introduction to Patient-Reported Outcomes Perspectives Series

*Manjula Kurella Tamura*

### 1882 Considerations and Challenges in Selecting Patient-Reported Outcome Measures for Clinical Trials in Nephrology

*Angela Ju and Allison Tong*

### 1885 Time to Rethink Our Approach to Patient-Reported Outcome Measures for ESRD

*Fredric O. Finkelstein and Susan H. Finkelstein*

### 1889 Using Patient-Reported Measures in Dialysis Clinics

*John D. Peipert and Ron D. Hays*

## Feature

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### 1892 Statistical Methods for Modeling Time-Updated Exposures in Cohort Studies of Chronic Kidney Disease

*Dawei Xie, Wei Yang, Christopher Jepson, Jason Roy, Jesse Y. Hsu, Haochang Shou, Amanda H. Anderson, J. Richard Landis, and Harold I. Feldman on behalf of the Chronic Renal Insufficiency Cohort (CRIC) Study Investigators*

## Review

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### 1900 Perspectives from the Kidney Health Initiative on Advancing Technologies to Facilitate Remote Monitoring of Patient Self-Care in RRT

*Mitchell H. Rosner, Susie Q. Lew, Paul Conway, Jennifer Ehrlich, Robert Jarrin, Uptal D. Patel, Karen Rheuban, R. Brooks Robey, Neal Sikka, Eric Wallace, Patrick Brophy, and James Sloand*

### On the Cover

*What's the diagnosis?*

#### Case description:

A 55-year-old woman with AIDS presented with anorexia, vomiting and weight loss. Two months prior she initiated antiretroviral therapy and treatment for disseminated *Mycobacterium tuberculosis* (Mtb). Labs revealed acute kidney injury, serum creatinine (SCr) of 1.5 mg/dL from 0.7 mg/dL over 6 weeks, and subnephrotic-range proteinuria (2.8 g/dL). Urine microscopy showed granular casts and red and white blood cells without bacteria. Urine, blood and sputum cultures for acid-fast bacilli (AFB) were negative. Renal ultrasound was unremarkable and computerized tomography demonstrated improvement in both pulmonary opacities and thoracic and retroperitoneal lymphadenopathy. Immune reconstitution inflammatory syndrome (IRIS) was suspected and a short course of steroids was given. SCr initially improved but then worsened, prompting a kidney biopsy.

#### Images:

- Left panel: The cortex shows a granulomatous interstitial nephritis (GIN) with poorly formed, coalescing granulomas composed of epithelioid histiocytes and occasional multinucleated giant cells, with an associated lymphoplasmacytic inflammatory infiltrate. There is no necrosis or significant neutrophilic or eosinophilic inflammation. The glomeruli are normal.
- Right panel: Multiple AFB identified within granulomas with a focal beaded appearance on AFB stain.

#### Teaching points:

- The histological differential diagnosis for GIN includes drug-induced, sarcoidosis, deposition of crystals or other foreign material, infection, granulomatosis with polyangiitis, tubulointerstitial nephritis with uveitis and IRIS.
- IRIS-related kidney disease was considered. IRIS is an inflammatory disorder characterized by paradoxical worsening during immune recovery of manifestations of pre-existing opportunistic infections, which generally responds to steroids. Although renal injury from IRIS is rare, mycobacterium is the main associated infection. Renal biopsy in patients with IRIS demonstrates non-caseating GIN without microorganisms.
- In this case, the GIN is associated with AFB, which most likely represents Mtb given their morphology and the clinical history of previous disseminated Mtb infection. Sterile pyuria and hematuria can be seen. The kidneys are common targets when Mtb hematogenously disseminates. Treatment consists of continuing Mtb therapy for a full nine months.

*(Images and text provided by Kelly Mazurek, Nicole Andeen, Roberto Nicosia, and Leah Haseley, University of Washington, Seattle, Washington)*