

# CJASN

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## Patient Voice

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**1549 Optimizing Use of Deceased Donor Kidneys: Organ Waste While We Continue to Wait**

*Melissa Bensouda*

*See related editorial and article on pages 1560 and 1634, respectively.*

## Editorials

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**1551 Safe and Effective Management of Pain in People with CKD**

*Sara N. Davison and Sarah Rathwell*

*See related article on page 1581.*

**1554 Frailty and CKD: Chicken or the Egg?**

*Cynthia Delgado*

*See related article on page 1597.*

**1557 Sex and the Incidence and Prevalence of Kidney Disease**

*Laurie A. Tomlinson and Catherine M. Clase*

*See related article on page 1616.*

**1560 No Time to Wait: Optimizing Use of Deceased Donor Kidneys**

*Scott Davis and James E. Cooper*

*See related Patient Voice and article on pages 1549 and 1634, respectively.*

## Original Articles

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### Chronic Kidney Disease

**1562 Serum Calcification Propensity and Clinical Events in CKD**

*Joshua D. Bundy, Xuan Cai, Rupal C. Mehta, Julia J. Scialla, Ian H. de Boer, Chi-yuan Hsu, Alan S. Go, Mirela A. Dobre, Jing Chen, Panduranga S. Rao, Mary B. Leonard, James P. Lash, Geoffrey A. Block, Raymond R. Townsend, Harold I. Feldman, Edward R. Smith, Andreas Pasch, and Tamara Isakova, the CRIC Study Investigators*

### Clinical Nephrology

**1572 Survival and Kidney Outcomes of Children with an Early Diagnosis of Posterior Urethral Valves**

*Katherine W. Herbst, Paul Tomlinson, Gina Lockwood, Maua H. Mosha, Zhu Wang, and Cynthia D'Alessandri-Silva*

### Cystic Kidney Disease

**1581 Associations of Opioid Prescriptions with Death and Hospitalization across the Spectrum of Estimated GFR**

*Tessa K. Novick, Aditya Surapaneni, Jung-Im Shin, G. Caleb Alexander, Lesley A. Inker, Eric A. Wright, Alex R. Chang, and Morgan E. Grams*

*See related editorial on page 1551.*

### Genetics

**1590 Genetic and Environmental Influences on the Correlations between Traits of Metabolic Syndrome and CKD**

*Xu Chen, Istiak Bhuiyan, Ralf Kuja-Halkola, Patrik K. E. Magnusson, and Per Svensson*

### Geriatric and Palliative Nephrology

#### 1597 **Estimated Glomerular Filtration Rate Decline and Incident Frailty in Older Adults**

*Florent Guerville, Philippe de Souto Barreto, Benjamin Taton, Isabelle Bourdel-Marchasson, Yves Rolland, and Bruno Vellas, for the Multidomain Alzheimer Preventive Trial (MAPT)/Data Sharing Alzheimer (DSA) Group*  
See related editorial on page 1554.

### Glomerular and Tubulointerstitial Diseases

#### 1605 **Sensitivity and Specificity of Pathologic Findings to Diagnose Lupus Nephritis**

*Satoru Kudose, Dominick Santoriello, Andrew S. Bomback, M. Barry Stokes, Vivette D. D'Agati, and Glen S. Markowitz*

### Maintenance Dialysis

#### 1616 **Sex Differences in Kidney Replacement Therapy Initiation and Maintenance**

*Marlies Antlanger, Marlies Noordzij, Moniek van de Luijngaarden, Juan Jesus Carrero, Runolfur Palsson, Patrik Finne, Marc H. Hemmeler, Nuria Aresté-Fosalba, Anna Varberg Reisæter, Aleix Cases, Jamie P. Traynor, Reinhard Kramar, Ziad Massy, Kitty J. Jager, and Manfred Hecking, on behalf of the ERA-EDTA Registry*  
See related editorial on page 1557.

### Mineral Metabolism

#### 1626 **Serum Phosphate and Microvascular Function in a Population-Based Cohort**

*Charles Ginsberg, Alfons J.H.M. Houben, Rakesh Malhotra, Tos T.J.M. Berendschot, Pieter C. Dagnelie, Jeroen P. Kooman, Caroll A. Webers, Coen D.A. Stehouwer, and Joachim H. Ix*

### Transplantation

#### 1634 **A Donor Utilization Index to Assess the Utilization and Discard of Deceased Donor Kidneys Perceived as High Risk**

*Corey Brennan, Syed Ali Husain, Kristen L. King, Demetra Tsapepas, Lloyd E. Ratner, Zhezhen Jin, Jesse D. Schold, and Sumit Mohan*  
See related Patient Voice and editorial on pages 1549 and 1560, respectively.

#### 1642 **Risk Factors for 1-Year Graft Loss After Kidney Transplantation: Systematic Review and Meta-Analysis**

*Farid Foroutan, Erik Loewen Friesen, Kathryn Elizabeth Clark, Shahrzad Motaghi, Roman Zyla, Yung Lee, Rakhshan Kamran, Emir Ali, Mitch De Snoo, Ani Orchanian-Cheff, Christine Ribic, Darin J. Treleaven, Gordon Guyatt, and Maureen O. Meade*

## Research Letter

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#### 1651 **A Validation Study of Employment Status in Late-Stage CKD**

*Nancy G. Kutner and Rebecca Zhang*

## Erratum

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#### 1653 **Correction**

## Kidney Case Conference: How I Treat

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#### 1655 **Hypertension in a Pregnant Patient: How I Treat**

*Phyllis August*

#### 1658 **Treatment of Growth Retardation in a Child with CKD**

*Emily Stonebrook and John D. Mahan*

## Perspectives

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#### 1661 **CKD in Native Hawaiians and Pacific Islanders: Trouble in Paradise**

*David Na'ai and Kalani L. Raphael*

### 1664 Foamy Urine: Is This a Sign of Kidney Disease?

*Zeid J. Khitan and Richard J. Glassock*

### 1667 How Does CREDESCENCE Inform Best Use of SGLT2 Inhibitors in CKD?

*Joshua J. Neumiller and Rita R. Kalyani*

## Review

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### 1670 Preoperative Noncoronary Cardiovascular Assessment and Management of Kidney Transplant Candidates

*Jayson Rakesh Baman, Joseph Knapper, Zankhana Raval, Matthew E. Harinstein, John J. Friedewald, Kameswari Maganti, Michael J. Cuttica, Michael I. Abecassis, Ziad A. Ali, Mihai Gheorghide, and James D. Flaherty*

## On the Cover

*What's the diagnosis?*

A 58-year-old man with a history of end-stage kidney disease secondary to polycystic kidney disease on hemodialysis presented for insertion of a pacemaker. Physical examination revealed bilaterally swollen shoulders with limited range of motion. Patient's hemodialysis is limited to 2 hours at a time to limit post-dialysis. A chest x-ray showed bilateral periarticular calcification over the glenohumeral joints. His pertinent laboratory findings were serum creatinine 7.31mg/dl, serum calcium 8.8 mg/dl, serum phosphate 6.2 mg/dl, and parathyroid hormone 1813.3 pg/ml.

Image Descriptions:

Image 1: This is an x-ray of the left humeral joint where we can see diffuse calcium deposits over the glenohumeral region.

Image 2: This is an x-ray view of the right humeral joint showing similar depositions. Here we can see the "sedimentation sign," which is lobulated layering of calcium deposits. This is a common finding in Uremic Tumoral Calcinosis (UTC).

Key Teaching Points:

UTC occurs in 0.5-1.2% of hemodialysis patients and presents as painful nodular cystic growths around large joints. It is more common in the acetabular joint than the glenohumeral joint and is typically seen in patients with a GALNT3 mutation, which reduces phosphate breakdown. A hallmark of UTC is normocalcemia and hyperphosphatemia. Tumoral calcinosis was termed based on appearance of multiple well-defined tumors. While UTC is not a malignant condition, it can cause severe discomfort and limited motion. The best management is fine-needle aspiration for small UTC and surgical removal for larger UTC. To prevent recurrence, it is best to identify and treat the underlying pathology.

*(Images provided by Vikas Yellapu, St. Luke's University Health Network - Orthopedics, Bethlehem, Pennsylvania, and Sudip Nanda, St. Luke's University Health Network - Cardiology, Bethlehem, Pennsylvania)*