**Editorials**

2099 Vaccinations in Kidney Transplant Patients: Searching for Optimal Protection  
Camille Nelson Kotton  
See related article on page 2208.

2102 Management of Acute Kidney Injury: It’s the Squeaky Wheel That Gets the Oil!  
Ravindra L. Mehta  
See related article on page 2215.

2105 The Patient as a Limit to Dialysis Technology  
Sunny Eloot, Raymond Vanholder, Wim Van Biesen, and Norbert Lameire  
See related article on page 2235.

**Original Articles**

**Acute Kidney Injury/Acute Renal Failure**

2108 HMG–CoA Reductase Activation and Urinary Pellet Cholesterol Elevations in Acute Kidney Injury  
Ali CM Johnson, Lorraine B. Ware, Jonathan Himmelfarb, and Richard A. Zager

2114 Model to Predict Mortality in Critically Ill Adults with Acute Kidney Injury  
Sevag Demirjian, Glenn M. Chertow, Jane Hongyuan Zhang, Theresa Z. O’Connor, Joseph Vitale, Emil P. Paganini, and Paul M. Palevsky, for the VA/NIH Acute Renal Failure Trial Network

**Chronic Kidney Disease**

2121 Cardiovascular Disease Among Hispanics and Non-Hispanics in the Chronic Renal Insufficiency Cohort (CRIC) Study  
Ana C. Ricardo, James P. Lash, Michael J. Fischer, Claudia M. Lora, Matthew Budoff, Martin G. Keane, John W. Kusek, Monica Martinez, Lisa Nessel, Thomas Stamos, Akinlolu Ojo, Mahboob Rahman, Elsayed Z. Soliman, Wei Yang, Harold I. Feldman, and Alan S. Go, on behalf of the CRIC and HCRIC Investigators

2132 Metabolic Abnormalities, Cardiovascular Disease Risk Factors, and GFR Decline in Children with Chronic Kidney Disease  
Susan L. Furth, Alison G. Abraham, Juditherry-Fluker, George J. Schwartz, Mark Benfield, Frederick Kaskel, Craig Wong, Robert H. Mak, Marva Moxey-Mims, and Bradley A. Warady

2141 Serum 25-Hydroxyvitamin D and Change in Estimated Glomerular Filtration Rate  
Ian H. de Boer, Ronit Katz, Michel Chonchol, Joachim H. Ix, Mark J. Sarnak, Michael G. Shlipak, David S. Siscovick, and Bryan Kestenbaum

2150 The Impact of Interlaboratory Differences in Cystatin C Assay Measurement on Glomerular Filtration Rate Estimation  
Christine A. White, Andrew D. Rule, Christine P. Collier, Ayub Akbari, John C. Lieske, Nathalie Lepage, Steve Doucette, and Greg A. Knoll

2157 A Novel Technique to Optimize Facility Locations of New Nephrology Services for Remote Areas  
Bharati Ayyalasomayajula, Natasha Wiebe, Brenda R. Hemmelgarn, Aminu Bello, Braden Manns, Scott Klarenbach, and Marcello Tonelli
Clinical Immunology and Pathology

**2165 Glomerulonephritis With Isolated C3 Deposits and Monoclonal Gammapathy: A Fortuitous Association?**
Frank Bridoux, Estelle Desport, Véronique Frémeaux-Bacchi, Christine Fen Chong, Jean-Marc Gombert, Corinne Lacombe, Nathalie Quellard, and Guy Touchard

Clinical Nephrology

**2175 Pathologic Predictors of Renal Outcome and Therapeutic Efficacy in IgA Nephropathy: Validation of the Oxford Classification**
Su-Fang Shi, Su-Xia Wang, Lei Jiang, Ji-Cheng LV, Li-Jun Liu, Yu-Qing Chen, Sai-Nan Zhu, Gang Liu, Wan-Zhong Zou, Hong Zhang, and Hai-Yan Wang

**2185 Platelet Activation in Patients with Atherosclerotic Renal Artery Stenosis Undergoing Stent Revascularization**
Steven Haller, Satjit Adlakha, Grant Reed, Pamela Brewster, David Kennedy, Mark W. Burket, William Colyer, Hai-feng Yu, Dong Zhang, Joseph I. Shapiro, and Christopher J. Cooper

**2192 Three Decades of Progress in Treating Childhood-Onset Lupus Nephritis**
Tanya Pereira, Carolyn L. Abitbol, Wacharee Seerunvong, Chryso Katsouflis, Jayanthi Chandar, Michael Freundlich, and Gastón Zilleruelo

Epidemiology and Outcomes

**2200 Age-Specific Association of Reduced Estimated Glomerular Filtration Rate and Albuminuria with All-Cause Mortality**
Paul Muntner, C. Barrett Bowling, Liyan Gao, Dana Rizk, Suzanne Judd, Rikki M. Tanner, William McClellan, and David G. Warnock

**2208 Efficacy of Influenza A H1N1/2009 Vaccine in Hemodialysis and Kidney Transplant Patients**
Marta Crespo, Silvia Collado, Marisa Mir, Higini Cao, Francesc Barbosa, Consol Serra, Carlota Hidalgo, Anna Faura, Milagros Montero, Juan García de Lomas, Juan P. Horcajada, Josep M. Puig, and Julio Pascual
See related editorial on page 2099.

**2215 Referral Patterns and Outcomes in Noncritically Ill Patients with Hospital-Acquired Acute Kidney Injury**
Pascal Meier, Rachel Meier Bonfils, Bruno Vogt, Bernard Burnand, and Michel Burnier
See related editorial on page 2102.

ESRD & Chronic Dialysis

**2226 Long-Term Viral Negativity After Interferon for Chronic Hepatitis C Virus Infection in Hemodialysis**
Craig E. Gordon, Katrin Uhlig, Christopher H. Schmid, Andrew S. Levey, and John B. Wong

**2235 Dialysate Flow Rate and Delivered Kt/V_urea for Dialyzers with Enhanced Dialysate Flow Distribution**
Richard A. Ward, John W. Idoux, Hiba Hamdan, Rosemary Ouseph, Thomas A. Depner, and Thomas A. Golper
See related editorial on page 2105.

**2240 Associations of Triiodothyronine Levels with Carotid Atherosclerosis and Arterial Stiffness in Hemodialysis Patients**
Erhan Tatar, Fatih Kircelli, Gulay Asci, Juan Jesus Carrero, Ozkan Gungor, Meltem Sezis Demirci, Suha Sureyya Ozbek, Naim Ceylan, Mehmet Ozkahya, Huseyin Toz, and Ercan Ok

**2247 The Spectrum of Infections in Catheter-Dependent Hemodialysis Patients**
Yaser Al-Solaiman, Erin Estrada, and Michael Allon
Original Articles (Continued)

2253 IL-6 Levels, Nutritional Status, and Mortality in Prevalent Hemodialysis Patients
Ilia Beberashvili, Inna Sinuani, Ada Azar, Hila Yasur, Gregory Shapiro, Leonid Feldman, Zhan Averbukh, and Joshua Weissgarten

Mineral Metabolism/Bone Disease

2264 Bone Microarchitecture in Hemodialysis Patients Assessed by HR-pQCT
Daniel Cejka, Janina M. Patsch, Michael Weber, Danielle Diarra, Markus Riegersperger, Zeljko Kikic, Christian Krestan, Claudia Schueller-Weidekamm, Franz Kainberger, and Martin Haas

2272 Effect of Phosphate Binders on Serum Inflammatory Profile, Soluble CD14, and Endotoxin Levels in Hemodialysis Patients
Juan F. Navarro-González, Carmen Mora-Fernández, Mercedes Muros de Fuentes, Javier Donate-Correa, Violeta Cazaña-Pérez, and Javier García-Pérez

Nephrolithiasis

2289 Primary Hyperoxaluria Type III Gene HOGA1 (Formerly DHDPSL) as a Possible Risk Factor for Idiopathic Calcium Oxalate Urolithiasis
Carla G. Monico, Sandro Rossetti, Ruth Belostotsky, Andrea G. Cogal, Regina M. Herges, Barbara M. Seide, Julie B. Olson, Eric J. Bergstrahl, Hugh J. Williams, William E. Haley, Yaacov Frishberg, and Dawn S. Milliner

Renal Transplantation

2296 Graft Loss Due to Recurrent Lupus Nephritis in Living-Related Kidney Donation
Phuong-Thu T. Pham and Phuong-Chi T. Pham

Attending Rounds

2300 A New CJASN Feature: Attending Rounds
Jeffrey S. Berns

2301 Attending Rounds: A Patient with Drug Resistant Hypertension
Raymond R. Townsend

Public Policy Series

2307 New CJASN Feature: Public Policy Series
Robert J. Rubin and Gary C. Curhan

2308 A New System for Kidney Allocation: The Devil Is in the Details
William M. Bennett and Kevin M. McEvoy

2310 Better Off Living—The Ethics of the New UNOS Proposal for Allocating Kidneys for Transplantation
Peter P. Reese and Arthur L. Caplan
On the Cover

What’s the diagnosis? Computed tomography (CT) urogram with 3D reconstruction demonstrates bilateral papillary necrosis with sloughed papillae. The classic “egg in cup” appearance from central contrast pooling is seen in the middle calyx of the left kidney, while the “lobster claw” appearance of papillary necrosis is noted in the third calyx from the top in the right kidney. As shown in the diagram, contrast pools in the area of the necrotic papillae (large arrow), which gives the appearance of an “egg”, while contrast in the calyx gives the “cup” appearance (small arrow). An unrelated imaging finding is a kinked left ureter with associated pelvic fullness. Papillary necrosis is characterized by coagulative necrosis of the renal medullary pyramids and papillae, which is caused by conditions and nephrotoxins that synergize to induce ischemia of these structures. It occurs in patients with sickle cell disease and trait, recurrent pyelonephritis, diabetes mellitus, analgesic nephropathy, and tuberculosis of the pelvicalyceal system. Patients often present clinically with gross or microscopic hematuria and flank pain. At times, sloughed papilla may cause acute ureteral obstruction. The necrotic papillae can become secondarily infected or a niche for subsequent stone formation. In regards to imaging, 3D reconstruction CT urogram is a superior noninvasive method of demonstrating renal papillary necrosis and does not require traditional intravenous urography. (Image and text provided by Swathi Singananamala, Saravanan Krishnamoorthy, and Mark A. Perazella, Yale University and Yale-New Haven Hospital, New Haven, Connecticut.)