

CJASN

Clinical Journal of the American Society of Nephrology

March 2011 • Vol. 6 • No. 3

Editorials

463 **Fistulas First—But Can They Last?**

Laura M. Dember

See related article on page 575.

465 **Dialysis Survival after Graft Loss: Are We Finally Comparing “Apples to Apples”?**

Louise Moist

See related article on page 582.

Original Articles

Acute Renal Failure

467 **Effluent Volume in Continuous Renal Replacement Therapy Overestimates the Delivered Dose of Dialysis**

Rolando Claure-Del Granado, Etienne Macedo, Glenn M. Chertow, Sharon Soroko, Jonathan Himmelfarb, T. Alp Ikizler, Emil P. Paganini, and Ravindra L. Mehta

476 **Neutrophil Gelatinase-Associated Lipocalin in the Diagnosis of Type 1 Cardio-Renal Syndrome in the General Ward**

Margarida Alvelos, Rodrigo Pimentel, Erika Pinho, André Gomes, Patricia Lourenço, Maria José Teles, Pedro Almeida, João Tiago Guimarães, and Paulo Bettencourt

Chronic Kidney Disease

482 **Folic Acid Therapy and Cardiovascular Disease in ESRD or Advanced Chronic Kidney Disease: A Meta-Analysis**

Xianhui Qin, Yong Huo, Craig B. Langman, Fanfan Hou, Yundai Chen, Debora Matossian, Xiping Xu, and Xiaobin Wang

489 **Factors Affecting Employment at Initiation of Dialysis**

Rebecca J. Muehrer, Dori Schatell, Beth Witten, Ronald Gangnon, Bryan N. Becker, and R. Michael Hofmann

497 **Implications of the CKD-EPI GFR Estimation Equation in Clinical Practice**

Jesse D. Schold, Sankar D. Navaneethan, Stacey E. Jolly, Emilio D. Poggio, Susana Arrigain, Welf Saupe, Anil Jain, John W. Sharp, James F. Simon, Martin J. Schreiber, Jr., and Joseph V. Nally, Jr.

505 **Monocyte Angiotensin Converting Enzyme Expression May Be Associated with Atherosclerosis Rather than Arteriosclerosis in Hemodialysis Patients**

Christof Ulrich, Eric Seibert, Gunnar H. Heine, Danilo Fliser, and Matthias Girndt

512 **Cardiorespiratory Fitness Is Independently Associated with 25-Hydroxyvitamin D in Chronic Kidney Disease**

William G. Petchey, Erin J. Howden, David W. Johnson, Carmel M. Hawley, Thomas Marwick, and Nicole M. Isbel

Clinical Nephrology

519 **Microvolt T-Wave Alternans in End-Stage Renal Disease Patients—Associations with Uremic Cardiomyopathy**

Rajan K. Patel, Patrick B. Mark, Crawford Halliday, Tracey Steedman, Henry J. Dargie, Stuart M. Cobbe, and Alan G. Jardine

528 **Determinants and Prognostic Significance of Electrocardiographic Left Ventricular Hypertrophy Criteria in Chronic Kidney Disease**

Rajiv Agarwal and Robert P. Light

- 537 Decline in Residual Renal Function in Automated Compared with Continuous Ambulatory Peritoneal Dialysis**
Wieneke Marleen Michels, Marion Verduijn, Diana C. Grootendorst, Saskia le Cessie, Elisabeth Wilhelmina Boeschoten, Friedo Wilhelm Dekker, and Raymond Theodorus Krediet, for the NECOSAD Study Group
- 543 Blood Pressure Control and Left Ventricular Mass in Children with Chronic Kidney Disease**
Manish D. Sinha, Shane M. Tibby, Pernille Rasmussen, Debbie Rawlins, Charles Turner, R. Neil Dalton, Christopher J.D. Reid, Susan P.A. Rigden, Caroline J. Booth, and John M. Simpson
- 552 Which Creatinine and Cystatin C Equations Can Be Reliably Used in Children?**
Justine Bacchetta, Pierre Cochat, Nicolas Rognant, Bruno Ranchin, Aoumeur Hadj-Aissa, and Laurence Dubourg
- Dialysis**
- 561 Peritoneal Albumin and Protein Losses Do Not Predict Outcome in Peritoneal Dialysis Patients**
Olga Balafá, Nynke Halbesma, Dirk G. Struijk, Friedo W. Dekker, and Raymond T. Krediet
- 567 Serum Bilirubin Links UGT1A1*28 Polymorphism and Predicts Long-Term Cardiovascular Events and Mortality in Chronic Hemodialysis Patients**
Ying-Hwa Chen, Szu-Chun Hung, and Der-Cherng Tarng
- 575 Decreased Cumulative Access Survival in Arteriovenous Fistulas Requiring Interventions to Promote Maturation**
Timmy Lee, Ahsan Ullah, Michael Allon, Paul Succop, Mahmoud El-Khatib, Rino Munda, and Prabir Roy-Chaudhury
See related editorial on page 463.
- 582 Impact of Dialysis Modality on Survival after Kidney Transplant Failure**
Jeffrey Perl, Omar Hasan, Joanne M. Bargman, Depeng Jiang, Yingbo Na, John S. Gill, and S. Vanita Jassal
See related editorial on page 465.
- 591 Peritoneal Membrane Phosphate Transport Status: A Cornerstone in Phosphate Handling in Peritoneal Dialysis**
Ana Paula Bernardo, Sebastián Azorin Contesse, Maria Auxiliadora Bajo, Anabela Rodrigues, Gloria Del Peso, Marta Ossorio, António Cabrita, and Rafael Selgas
- 598 Assessing Creatinine Clearance from Modification of Diet in Renal Disease Study Equations in the ADEMEX Cohort: Limitations and Potential Applications**
James A. Sloand, John K. Leypoldt, Bruce F. Culleton, Mary E. Gellens, Ramon Paniagua, Dante Amato, and Edward F. Vonesh
- 605 Satisfaction with Renal Replacement Therapy and Education: The American Association of Kidney Patients Survey**
Stephen Z. Fadem, David R. Walker, Greg Abbott, Amy L. Friedman, Richard Goldman, Sue Sexton, Kim Buettner, Kris Robinson, and Thomas G. Peters
- Epidemiology and Outcomes**
- 613 End-Stage Renal Disease Status and Critical Illness in the Elderly**
Manish M. Sood, Dan Roberts, Paul Komenda, Joe Bueti, Martina Reslerova, Julie Mojica, and Claudio Rigatto
- 620 Prescribed Dietary Phosphate Restriction and Survival among Hemodialysis Patients**
Katherine E. Lynch, Rebecca Lynch, Gary C. Curhan, and Steven M. Brunelli
- Hereditary Disease**
- 630 Recurrent Deep Intronic Mutations in the SLC12A3 Gene Responsible for Gitelman's Syndrome**
Yi-Fen Lo, Kandai Nozu, Kazumoto Iijima, Takahiro Morishita, Che-Chung Huang, Sung-Sen Yang, Huey-Kang Sytwu, Yu-Wei Fang, Min-Hua Tseng, and Shih-Hua Lin
- 640 Potentially Modifiable Factors Affecting the Progression of Autosomal Dominant Polycystic Kidney Disease**
Vicente E. Torres, Jared J. Grantham, Arlene B. Chapman, Michal Mrug, Kyongtae T. Bae, Bernard F. King Jr., Louis H. Wetzel, Diego Martin, Mark E. Lockhart, William M. Bennett, Marva Moxey-Mims, Kaleab Z. Abebe, Yan Lin, and James E. Bost, for the Consortium for Radiologic Imaging Studies of Polycystic Kidney Disease (CRISP)

Original Articles (Continued)

Hypertension

648 Association between Hemoglobin Level and Endothelial Function in Uncomplicated, Untreated Hypertensive Patients

Raffaele Maio, Angela Sciacqua, Rosamaria Bruni, Alessandra Pascale, Giuseppe Carullo, Paola E. Scarpino, Desirée Addesi, Ines Spinelli, Giulia Galiano Leone, and Francesco Perticone

Renal Transplantation

656 Nonlinear Relationship between Mycophenolate Mofetil Dose and Mycophenolic Acid Exposure: Implications for Therapeutic Drug Monitoring

Brenda C.M. de Winter, Ron A.A. Mathot, Ferdi Sombogaard, Arnold G. Vulto, and Teun van Gelder

In-Depth Reviews

664 The Efficacy and Safety of the 3-Hydroxy-3-methylglutaryl-CoA Reductase Inhibitors in Chronic Kidney Disease, Dialysis, and Transplant Patients

Ali Olyaei, Erin Greer, Rowena Delos Santos, and Jose Rueda

679 Henoch-Schönlein Purpura Nephritis: Pathophysiology, Treatment, and Future Strategy

Jean-Claude Davin

Special Feature

690 Tacrolimus-Induced Neutropenia in Renal Transplant Recipients

Anja De Rycke, Daan Dierickx, and Dirk R. Kuypers

On the Cover

This periodic acid-Schiff stained section shows an arteriole with “onion skin” lesion, characterized by extensive remodeling and concentric thickening of the vessel wall, with duplication of the cells and matrix layers of the media, intimal thickening, occlusion and complete obliteration of the vessel lumen. These severe vascular changes result from repetitive injury and repair of the vessel walls and have been classically described in malignant hypertension; however, the changes can be observed in a number of other conditions associated with a primary form of vascular injury, including scleroderma, undifferentiated connective tissue disease, antiphospholipid antibody syndrome, healed hemolytic uremic syndrome, and the use of drugs with vascular toxicity (such as cocaine, amphetamines, VEGF inhibitors). (Image and text provided by Dr. Vanesa Bijol, Brigham and Women’s Hospital)