EDITORIALS

647 Renal Biopsies in Acute Kidney Injury: Who Are We Missing?
Isaac E. Stillman, Emerson Q. Lima, and Emmanuel A. Burdmann See related article on page 674.

649 How Should Nephrologists Approach Gadolinium-based Contrast Imaging in Patients with Kidney Disease?
Mark A. Perazella See related article on page 747.

652 Leflunomide Therapy in Kidney Transplantation: Ready for Prime Time?
Roslyn B. Mannon See related article on page 829.

PRESSE RÉNALE

654 Kidney Diseases: Environmental and Genetic Factors
Jean-Pierre Grünfeld

ORIGINAL ARTICLES

Acid/Base and Mineral Metabolism

658 Calcimimetics as an Adjuvant Treatment for Familial Hypophosphatemic Rickets
Uri S. Alon, Rachel Levy-Olomucki, Wayne V. Moore et al.

Acute Renal Failure

665 Urine NGAL Predicts Severity of Acute Kidney Injury After Cardiac Surgery: A Prospective Study
Michael Bennett, Catherine L. Dent, Qing Ma et al.

674 Renal Biopsy Findings in Acute Renal Failure in the Cohort of Patients in the Spanish Registry of Glomerulonephritis
Juan M. López-Gómez and Francisco Rivera, on behalf of Spanish Registry of Glomerulonephritis See related editorial on page 647.

Clinical Immunology and Pathology

682 Necrotizing and Crescentic Lupus Nephritis with Antineutrophil Cytoplasmic Antibody Seropositivity
Samih H. Nasr, Vivette D. D’Agati, Hye-Ran Park et al.

Clinical Nephrology

691 Endothelial Dysfunction in Patients with Chronic Kidney Disease Results from Advanced Glycation End Products (AGE)-Mediated Inhibition of Endothelial Nitric Oxide Synthase through RAGE Activation
Ellena Linden, Weijing Cai, John C. He et al.

699 Stent Placement Versus Angioplasty Improves Patency of Arteriovenous Grafts and Blood Flow of Arteriovenous Fistulae
Micah R. Chan, Surmeet Bedi, Robert J. Sanchez et al.

Diabetes and the Kidney

706 High-Normal Serum Uric Acid Is Associated with Impaired Glomerular Filtration Rate in Nonproteinuric Patients with Type 1 Diabetes
Elizabeth T. Rosolowsky, Linda H. Ficociello, Nicholas J. Maselli et al.

Dialysis

714 Hemodialysis Arteriovenous Fistula Patency Revisited: Results of a Prospective, Multicenter Initiative
Henricus J.T. Huijbregts, Michiel L. Bots, Cees H.A. Wittens et al.

Kazuho Honda, Chieko Hamada, Masaaki Nakayama et al.

729 Serum Vasopressin Response in Patients With Intradialytic Hypotension: A Pilot Study
Mira Rho, Mark A. Perazella, Chirag R. Parikh et al.

Table of Contents continued inside
Safety and Efficacy of Regional Citrate Anticoagulation During 8-Hour Sustained Low-Efficiency Dialysis
John A. Clark, Gerald Schulman, and Thomas A. Golper

Measuring Plasma Conductivity to Detect Sodium Load in Hemodialysis Patients
Lucile Mercadal, Aude Servais, Marcia Venditto et al.

Risk for Nephrogenic Systemic Fibrosis with Gadoteridol (ProHance) in Patients Who are on Long-Term Hemodialysis
Robert F. Reilly

See related editorial on page 649.

Epidemiology and Outcomes

Multidrug-Resistant Gram-Negative Bacteria among Patients Who Require Chronic Hemodialysis
Aurora Pop-Vicas, James Strom, Karen Stanley, and Erika M.C. D’Agata

Serum Albumin Level and Risk for Mortality and Hospitalization in Adolescents on Hemodialysis
Sandra Amaral, Wenke Hwang, Barbara Fivush et al.

Analgesic Nephropathy and Renal Replacement Therapy in Australia: Trends, Comorbidities and Outcomes
Sean Haw Chang, Timothy Hamish Mathew, and Stephen Peter McDonald

History-Adjusted Marginal Structural Analysis of the Association between Hemoglobin Variability and Mortality among Chronic Hemodialysis Patients
Steven M. Brunelli, Marshall M. Joffe, Rubeen K. Israni et al.

Relation of Low Glomerular Filtration Rate to Metabolic Disorders in Individuals without Diabetes and with Normoalbuminuria
Carlos Lorenzo, Subrata D. Nath, Anthony J.G. Hanley et al.

Hereditary Disease

Prevalence of Cysts in Seminal Tract and Abnormal Semen Parameters in Patients with Autosomal Dominant Polycystic Kidney Disease
Roser Torra, Joaquim Sarquella, Jordi Calabia et al.

Mineral Metabolism and Bone Disease

Does Vitamin D Receptor and Calcium Receptor Activation Therapy Play a Role in the Histopathologic Alterations of Parathyroid Glands in Refractory Uremic Hyperparathyroidism?
Carlo Lomonte, Luigi Vernaglione, Domenico Chimienti et al.

Renal Transplantation

Recurrent Glomerulonephritis after Renal Transplantation: An Unsolved Problem
William A. Golgert, Gerald B. Appel, and Sundaram Harirhan

Unmasking Glucose Metabolism Alterations in Stable Renal Transplant Recipients: A Multicenter Study
Patricia Delgado, Juan Manuel Diaz, Irene Silva et al.

Impact of Acute Rejection and New-Onset Diabetes on Long-Term Transplant Graft and Patient Survival
Edward H. Cole, Olwyn Johnston, Caren L. Rose, and John S. Gill

Cardiovascular Outcomes in the Outpatient Kidney Transplant Clinic: The Framingham Risk Score Revisited
Bryce Kiberd and Romuald Panek

Higher Levels of Leflunomide Are Associated with Hemolysis and Are not Superior to Lower Levels for BK Virus Clearance in Renal Transplant Patients
Nicolae Leca, Kimberly A. Muczynski, Jonathan A. Jefferson et al.

See related editorial on page 652.

MINI-REVIEW

Contribution of Bone and Mineral Abnormalities to Cardiovascular Disease in Patients with Chronic Kidney Disease
Paolo Raggi and Michael Kleerekoper

IN-DEPTH REVIEW

Diagnosis, Epidemiology and Outcomes of Acute Kidney Injury
Sushrut S. Waikar, Kathleen D. Liu, and Glenn M. Chertow
MOVING POINTS IN NEPHROLOGY

862 Acute Kidney Injury: Toward an Integrated Understanding through Development of a Research Agenda
Adeera Levin, John A. Kellum, and Ravindra L. Mehta, for the Acute Kidney Injury Network (AKIN)

864 A Framework and Key Research Questions in AKI Diagnosis and Staging in Different Environments
Patrick T. Murray, Prasad Devarajan, Andrew S. Levey et al.

869 Delivery of Renal Replacement Therapy in Acute Kidney Injury: What Are the Key Issues?
Andrew Davenport, Catherine Bouman, Ashok Kirpalani et al.

876 Timing of Initiation and Discontinuation of Renal Replacement Therapy in AKI: Unanswered Key Questions
Noel Gibney, Eric Hoste, Emmanuel A. Burdmann et al.

881 Epidemiology of Acute Kidney Injury
Jorge Cerdá, Norbert Lameire, Paul Eggers et al.

John A. Kellum, Ravindra L. Mehta, Adeera Levin et al.

SPECIAL FEATURES

895 What Have We Learned about Optimal Induction Therapy for Lupus Nephritis (III through V) from Randomized, Controlled Trials?
William F. Clark and Jessica M. Sontrop

899 Medicare from A to D: What Every Nephrologist Needs to Know
Lisa Morrison

CLINICAL CONFERENCE

905 Idiopathic Membranous Nephropathy: Diagnosis and Treatment
Fernando C. Fervenza, Sanjeev Sethi, and Ulrich Specks

920 The Challenge of Sudden Death in Dialysis Patients
Eberhard Ritz and Christoph Wanner