EDITORIALS


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.


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.


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

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

747 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**

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

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

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

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

783 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**

790 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**

794 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**

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

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

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

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

829 Higher Levels of Leflunomide Are Associated with Hemolysis and Are not Superior to Lower Levels for BK Virus Clearance in Renal Transplant Patients

**MINI-REVIEW**

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

**IN-DEPTH REVIEW**

844 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 Cerda, 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