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Editorials

720 Genetic Analysis in Kidney Disease: Advancing Clinical Diagnosis and Research Discovery

Whitney Besse

See related article on page 772

Original Investigations

Acute Kidney Injury and ICU Nephrology

724 Impaired Tubular Secretion of Organic Solutes in Acute Kidney Injury

Frank J. O'Brien, Robert D. Mair, Natalie S. Plummer, Timothy W. Meyer, Scott M. Sutherland, and Tammy L. Sirich

Clinical Nephrology

731 Initial Validation of a Machine Learning-Derived Prognostic Test (KidneyIntelX) Integrating Biomarkers and Electronic Health Record Data To Predict Longitudinal Kidney Outcomes

Kinsuk Chauhan, Girish N. Nadkarni, Fergus Fleming, James McCullough, Cijiang J. He, John Quackenbush, Barbara Murphy, Michael J. Donovan, Steven G. Coca, and Joseph V. Bonventre

Cystic Kidney Disease

740 Regional Variance of the Early Use of Tolvaptan for Autosomal Dominant Polycystic Kidney Disease

Reiko Inoue, Hiroshi Nishi, Daisuke Inoue, Kenjiro Honda, and Masaomi Nangaku

Dialysis

746 REDUcing the burden of dialysis Catheter ComplicaTIONS: a National approach (REDUCCTION) – design and baseline results

Sradha Kotwal, Sarah Coggan, Stephen McDonald, Girish Talaulikar, Alan Cass, Stephen Jan, Kevan R. Polkinghorne, Nicholas A. Gray, and Martin Gallagher, on behalf of the REDUCCTION Project Investigators

755 Chronic Hemodialysis Patients Hospitalized with COVID-19: Short-term Outcomes in the Bronx, New York

Molly Fisher, Milagros Yunes, Michele H. Mokrzycki, Ladan Golestaneh, Emad Alahiri, and Maria Coco

763 Supply and Distribution of Vascular Access Physicians in the United States: A Cross-Sectional Study

Shoou-Yih D. Lee, Jie Xiang, Abhijit V. Kshirsagar, Diane Steffick, Rajiv Saran, and Virginia Wang

Genetics

772 Beyond Panel-Based Testing: Exome Analysis Increases Sensitivity for Diagnosis of Genetic Kidney Disease

Parker C. Wilson, Latisha Love-Gregory, Meagan Corliss, Samantha McNulty, Jonathan W. Heusel, and Joseph P. Gaut

See related editorial on page 720

Glomerular and Tubulointerstitial Diseases

781 Advanced Oxidation Protein Products Contribute to Renal Tubulopathy via Perturbation of Renal Fatty Acids

Tadashi Imafuku, Hiroshi Watanabe, Takao Satoh, Takashi Matsuzaka, Tomoaki Inazumi, Hiromasa Kato, Shoma Tanaka, Yuka Nakamura, Takehiro Nakano, Kai Tokumaru, Hitoshi Maeda, Ayumi Mukunoki, Toru Takeo, Naomi Nakagata, Motoko Tanaka, Kazutaka Matsushita, Soken Tsuchiya, Yukihiko Sugimoto, Hitoshi Shimano, Masafumi Fukagawa, and Toru Maruyama

797 Value of Immediate Post-Kidney Biopsy Ultrasound in Excluding Late Hemorrhagic Complications

Alian Al-Balas, Ammar Almeahmi, and Michael Allon

Hypertension

801 Outcomes Associated with the Use of Renin-Angiotensin-Aldosterone System Blockade in Hospitalized Patients with SARS-CoV-2 Infection

Imran Chaudhri, Farrukh M. Koraishy, Olena Bolotova, Jeanwoo Yoo, Luis A. Marcos, Erin Taub, Haseena Sahib, Michelle Bloom, Sahar Ahmad, Hal Skopicki, and Sandeep K. Mallipattu

810 Apparent Treatment-Resistant Hypertension Assessed by Office and Ambulatory Blood Pressure in Chronic Kidney Disease—A Report from the Chronic Renal Insufficiency Cohort Study

George Thomas, Jesse Felts, Carolyn S. Brecklin, Jing Chen, Paul E. Drawz, Eva Lustigova, Rupal Mehta, Edgar R. Miller III, Stephen M. Sozio, Matthew R. Weir, Dawei Xie, Xue Wang, and Mahboob Rahman, on behalf of the CRIC Study Investigators

Brief Communications

819 Urinary Sediment Microscopy in Acute Kidney Injury Associated with COVID-19

Cesar F. Hernandez-Arroyo, Vipin Varghese, Muner M.B. Mohamed, and Juan Carlos Q. Velez

824 Appearances Can Be Deceiving - Viral-like Inclusions in COVID-19 Negative Renal Biopsies by Electron Microscopy

Clarissa A. Cassol, Neriman Gokden, Christopher P. Larsen, and Thomas D. Bourne

Global Perspective

829 Response to COVID-19 Infection in Hemodialysis Patients: An Australian Perspective

Kevan R. Polkinghorne, Peter G. Kerr, and Neil Boudville

Perspective

834 Technology, Telehealth, and Nephrology: The Time Is Now

Gaurav Jain, Masood Ahmad, and Eric L. Wallace

Review Articles

837 An Approach to Neurological Disorders in a Kidney Transplant Recipient

Priti Meena, Vinant Bhargava, Devinder Rana, Anil Bhalla, and Ashwani Gupta

845 Understanding the Link between Neighborhoods and Kidney Disease

Cathryn J. Lapedis, Laura H. Mariani, Bohyun Joy Jang, Jeffrey Hodgins, and Margaret T. Hicken

855 Management of Anemia in Nondialysis Chronic Kidney Disease: Current Recommendations, Real-World Practice, and Patient Perspectives

Murilo Guedes, Bruce M. Robinson, Gregorio Obrador, Allison Tong, Ronald L. Pisoni, and Roberto Pecoits-Filho

863 Bioenergetic Evolution Explains Prevalence of Low Nephron Number at Birth: Risk Factor for CKD

Robert L. Chevalier

Clinical Images in Nephrology and Dialysis

880 Multi-Organ Infarction in a Patient Receiving Infliximab

Dean Campbell, Kartik Kalra, and Ranil Desilva

882 Cystic Kidneys in a Patient with Craniofacial Abnormalities

Allison L. Tsao and C. John Sperati

884 Unusual Dialysis Catheter Location in a Transplant Patient

Daniela del Pilar Via Reque Cortes, Pablo Andrade Vale, and Paulo Ricardo Gessolo Lins

On the Cover

Description of frequency and characteristics of urinary sediment findings. *Panel A:* Microscopic examination of the urinary sediment (Sedi) was performed in a subset of patients with CoV-AKI (12%, 20/161). Findings consistent with acute tubular injury (ATI) (as per Perazella and Chawla scores) were found in the majority (85%, 17/20). Frequency of coarse granular casts (GC) identified either alone, or along with waxy casts (WxC) or renal tubular epithelial cell casts (RTECC) is shown. *Panel B:* Distribution of cases with ATI cast score (as per Perazella and Chawla scores), significant hematuria, significant leukocyturia, or combination of those elements. *Panel C:* Representative images of photomicrographs of slides of urinary sediment specimens examined by microscopy. *Top left:* abundant muddy brown granular casts under bright field at low power magnification (10X eyepiece, 10X objective); *top center:* specimen treated with Sternheimer-Malbin stain showing numerous (straight and convoluted) waxy casts surrounded by small fragmented coarse granular casts under bright field at low power magnification (10X eyepiece, 10X objective); *top right:* convoluted muddy brown granular cast under bright field at high power magnification (10X eyepiece, 40X objective); *bottom left:* renal tubular epithelial cell casts under bright field at high power magnification (10X eyepiece, 40X objective); *bottom center:* abundant coarse granular casts under dark field at low power magnification (10X eyepiece, 10X objective, zoomed by digital camera additional 10X); *bottom right:* specimen treated with Sternheimer-Malbin stain showing a muddy brown granular cast under dark field at high power magnification (10X eyepiece, 40X objective). Adapted from Figure 1 of “Urinary Sediment Microscopy in Acute Kidney Injury Associated with COVID-19” by Cesar F. Hernandez-Arroyo, Vipin Varghese, Muner M.B. Mohamed, and Juan Carlos Q. Velez. *KIDNEY*360 1: 819–823, 2020. doi: 10.34067/KID.0003352020.