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1873  The Sisyphean Task of Getting the Arteriovenous Fistula to Mature
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1876  Pathogenic LAMA5 Variants and Kidney Disease
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1880  Optimizing the Electronic Health Record for Clinical Research: Has the Time Come?
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1882  Polycystic Kidney Disease in the Real World
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1884  Complement Activation Fragments Are Increased in Critically Ill Pediatric Patients with Severe AKI
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1892  Quantitative Super-Resolution Microscopy Reveals Promoting Mitochondrial Interconnectivity Protects against AKI
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1908  The Association between Prevalence of Peritoneal Dialysis versus Hemodialysis and Patients’ Distance to Dialysis-Providing Facilities
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1917  Clinical Course of SARS-CoV-2 Infection in Adults with ESKD Receiving Outpatient Hemodialysis
1928 Challenges, Facilitators, and Recommendations for Implementation of Home Dialysis in the Veterans Health Administration: Patient, Caregiver, and Clinician Perceptions
Lindsey A. Jones, Elisa J. Gordon, Timothy P. Hogan, Cindi A. Fiandaca, Bridget M. Smith, Kevin T. Stroupe, and Michael J. Fischer

1945 Rationale and Trial Design of Mesenchymal Stem Cell Trial in Preventing Venous Stenosis of Hemodialysis Vascular Access Arteriovenous Fistula (MEST AVF Trial)

1953 Impact of Previous Tunnelled Vascular Catheters and their Location on Upper Limb Arteriovenous Fistula Function
Jason Diep, Angela Makris, Imelda De Guzman, Jeffery Wong, Ananthakrishnapuram Aravindan, Hareeshan Nandakoban, and Govind Narayanan
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1960 Characteristics Associated with Variation in Corticosteroid Exposure in Children with Steroid-Sensitive Nephrotic Syndrome: Results from a Canadian Longitudinal Study

1968 Clear Evidence of LAMA5 Gene Biallelic Truncating Variants Causing Infantile Nephrotic Syndrome
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1979 Validating a Computable Phenotype for Nephrotic Syndrome in Children and Adults Using PCORnet Data
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1987 Suitability for Kidney Transplantation in AL Amyloidosis: A Survey Study of Transplant and Amyloidosis Physicians
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1998 Clinical Validation of an Immune Quiescence Gene Expression Signature in Kidney Transplantation
Enver Akalin, Matthew R. Weir, Suphamai Bunnapradist, Daniel C. Brennan, Rowena Delos Santos, Anthony Langone, Arjang Djamali, Hua Xu, Xia Jin, Sham Dholakia, Robert N. Woodward, and Jonathan S. Bromberg

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On the Cover
Quantification of mitochondrial morphology in human biopsies with super-resolution microscopy. Representative surface renderings color coded for mitochondrial morphology based on the sphericity of the network: fragmented = yellow, intermediate = green, and filamentous = magenta. Scale bar = 4μm. Panel D from Figure 5 in “Quantitative super-resolution microscopy reveals promoting mitochondrial interconnectivity protects against AKI” by Kensei Taguchi, Bertha C Elias, Evan Krystofik, Subo Qian, Snehal Sant, Haichun Yang, Agnes B Fogo and Craig R Brooks. KIDNEY360 2: 1892-1907, 2021. DOI: 10.34067/KID.0001602021.