

Special Issue

Redefining Hemodialysis: Beyond Diffusion to Precision Therapy

Message from the Guest Editors

This Special Issue, “**Redefining Hemodialysis: Beyond Diffusion to Precision Therapy**”, will highlight innovative, physiology-driven strategies to transform dialysis into a more effective, personalized, and outcome-orientated therapy. Areas of interest include optimized convective clearance, advances in membrane and adsorption technologies, individualized fluid management, the targeted modulation of inflammation and oxidative stress, and improved gas-exchange strategies to reduce dialysis-induced hypoxia. We also welcome contributions integrating digitalization, artificial intelligence, digital biomarkers, and machine-learning-based risk prediction to support adaptive prescriptions and continuously tailored treatments. Furthermore, we encourage research advancing environmentally sustainable models—green dialysis—and modern evidence-generation frameworks such as novel clinical trial designs and clinical trial emulation. Our aim in launching this Special Issue is a bold and necessary one: to elevate hemodialysis from a life-sustaining intervention to a precision-based, patient-centered, and outcome-driven therapy.

Guest Editors

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There has been an explosion of gene and target based research and therapeutics in the multitude of fields that compose clinical medicine. The *Journal of Clinical Medicine's* (JCM) staff and editorial board are dedicated to providing cutting edge, timely, and peer-reviewed articles covering the diverse subspecialties of clinical medicine. The journal publishes concise, innovative, and exciting research articles as well as clinically significant articles and reviews that are pertinent to the myriad of disciplines within medicine. The articles published are relevant to both primary care physicians and specialists. The journal's full-texts are archived in PubMed Central and indexed in PubMed. Please consider submitting your manuscripts for publication to our journal and check us out on-line!

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