



Molecular Advances in Peritoneal Dialysis

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Message from the Guest Editor

Peritoneal dialysis (PD) represents a well-established, cost-effective treatment modality for ESKF that can be delivered at home. Compared with hemodialysis, PD offers a similar survival rate and is less expensive; in addition, it preserves residual kidney function better and removes solutes and fluid more gradually. The recent COVID-19 pandemic has highlighted the need for enhanced domiciliary care for ESKF patients. However, despite PD being a viable treatment for ESKF patients, it is still underprescribed. To a significant extent, this discrepancy can be explained by major limitations regarding PD efficiency and sustainability. In the short- and mid-term, infectious complications (primarily peritonitis) and catheter problems are the main reasons why this technique gets neglected. For patients on long-term PD, bio-incompatibility of the dialysis fluid represents a crucial problem. Furthermore, there is an unmet need for biomarkers as tools to identify patients who are at risk of PD-related complications and to guide personalized interventions. This issue aims to provide an update on the most recent molecular advances to improve the clinical outcomes of PD.





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Message from the Editor-in-Chief

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