Journal of Renal and Hepatic Disorders
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Special Issue

Precision nutrition and precision medicine for the management of liver and kidney diseases

Dear Colleagues,

Precision nutrition and precision medicine address disease management and prevention through a holistic approach that integrates endogenous biological factors—such as phenotype, epigenotype, metabolic status, gut microbiota, transcriptome, and metabolome—with exogenous exposures (diet, physical activity, lifestyle, emotions, medications, and pollution). Computational tools and artificial intelligence facilitate a comprehensive analysis of these factors, enabling recommendations grounded in clinical and biological interpretation.

Although liver and kidney diseases differ in pathophysiology, they share key drivers like metabolic dysregulation and inflammation, making them promising targets for precision strategies. In hepatology, precision nutrition can tailor dietary interventions to slow progression of MASLD and cirrhosis. In nephrology, precision medicine enhances risk stratification, early detection of renal decline, and optimization of immunosuppressive regimens.

This special issue invites original articles and systematic reviews that explore these approaches across the full spectrum of disease management—from prevention to prognosis. Clinical trials and experimental model studies are also considered. Our goal is to deepen mechanistic understanding and accelerate the translation of precision solutions into clinical practice.

Kind regards,
Dr. Omar Ramos-Lopez

Key words:
Precision medicine; precision nutrition; liver disease; kidney disease; biological factors.

Guest Editor

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Submssion Deadline **2027-08-31**

- **Submit here** https://jrenhep.com/submission

eISSN: 2207-3744