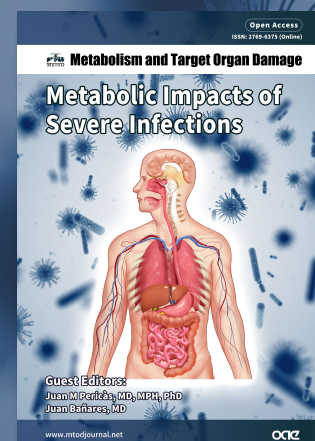


Metabolic Impacts of Severe Infections

Guest Editors:

Juan M. Pericàs, MD, MPH, PhD
Liver Unit, Vall d'Hebron University Hospital, Barcelona, Spain

Juan Bañares, MD
Liver Unit, Vall d'Hebron University Hospital, Barcelona, Spain



Special Issue Introduction:

Infections take a toll in the global homeostasis of the infected individual. Though this is undeniable, the intrinsic mechanisms by which infections exert this impact on metabolism is often disregarded and yet to be fully understood. Through this special issue, we will try to put the spotlight in the different steps all across the natural history of infection, from the metabolic implications of the immune response to the pathogen to the long-term consequences of severe infections. Some reviews will be more focused on a mechanistic perspective, while others will rather encompass the epidemiological spectrum and clinical impact of metabolic derangements that can potentially take place during or after severe infections.

Understanding the pathophysiology underlying the metabolic modulation of the interaction between the immune system in different clinical settings, from acute infections leading to sepsis to the complex chronic infections, will be the focus of the first section. The next sections will explore the two-way-conversation in which previous metabolic diseases act as predisposing factors for infection but also how infections determine both short and long term effects in the metabolism. The effect on clinical management will be explored to as it can take a meaningful impact on prognosis.

Recognition and taking steps towards better comprehension of this interaction is key to better treat our patients. This special issue is our contribution to pave the way in this direction.

Potential topics to be discussed in this issue include:

A. Pathophysiology

1. Metabolic reprogramming in sepsis.
2. Role of metabolic derangement in the pathophysiology of chronic infections: the case of chronic hepatitis C infection.
3. Interplay between the immune system and metabolism in the pathogenesis of liver-related infections. From gut-liver axis to intrahepatic insulin resistance.
4. Immunometabolism and endovascular/biofilm infections.

B. Epidemiology

1. Global burden of metabolism-dysfunction associated infections.
2. Hyperglycaemia in acutely severe infections.
3. Obesity as a risk factor of infection in critically ill patients.

C. Natural history and prognosis/complications

1. How metabolic derangement impacts prognosis in acute severe infections.
2. How metabolic disturbances shape the natural history of chronic infections: tuberculosis.
3. Metabolic complications in chronic HIV infection.
4. Post-acute metabolic complications of severe infections.

D. Management

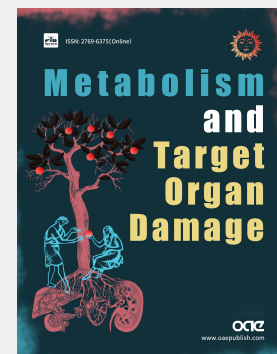
1. Prevention of complications related to metabolic disturbances during severe infections
2. How metabolic disturbances might affect the treatment of severe infections

Benefits to Authors:

- The APCs (\$600) will be WAIVED;
- Enjoy faster publication than regular submissions;
- Authors will be invited as Guest Speakers to our journal webinars. The webinar will be held via Zoom and it will also be broadcast live on Youtube and the Chinese WeChat Official Account, Video Account, Bilibili;
- A special interview will be provided to authors and will be promoted on the journal homepage and all media promotion platforms of both via the journal and publisher;
- Winner(s) of the "Best Paper Award" will be awarded. The reward will be in the form of a cash prize and a certificate.

Journal Introduction:

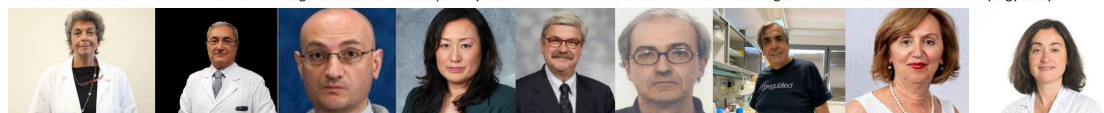
Metabolism and Target Organ Damage (M&TOD) (<https://mtodjournal.net/>, ISSN: 2769-6375) is a journal newly launched in 2021 with fast development in the past few months. It is an international, peer-reviewed, open access interdisciplinary journal which provides an online platform for the publication of clinical, basic, and translational studies. It covers (cardio)-metabolic disorders per se, such as obesity, diabetes, dyslipidemias, arterial hypertension and hyperuricemia in all age groups.



Editorial Board team:



Stefano Bellentani Stefano Ballestri Luigi Elio Adinolfi Christopher Byrne Amedeo Lonardo Giovanni Targher Pietro Andreone Gyorgy Baffy




Silvia R. Fargion Giampiero Francica Fulvio Lonardo Ayako Suzuki Leonardo Fabbri Luca Roncucci Claudio Tiribelli Helena Cortez-Pinto Annalisa Berzigotti

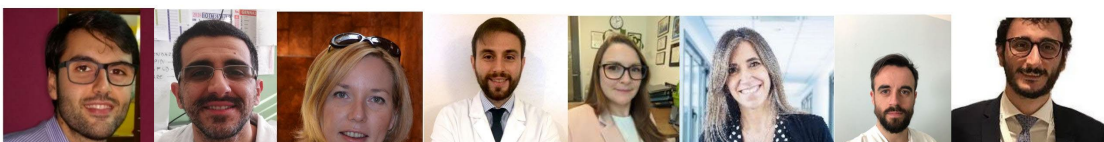


Jin-Rong Zhou Giuseppe Boriani Águeda González-Rodríguez Youngmi Jung Mariana Machado MariaLuz Martinez-Chantar Chiara Mussi Laura E. Nagy



 Editorial Board team of **Metabolism and Target Organ Damage (M&TOD)**

Wah Yang Norbert Stefan Shira Zelber-Sagi Giovanni Guaraldi Saula Vigili de Kreutzenberg Sonia M. Najjar



Agostino Milluzzo Fabio Nascimbeni Raluca Pais Francesco Perone Shannon Reilly Natalia Rosso Daniele Santi Marco Vitolo



Iliara Barchetta Rocío Gallego-Durán Fernando Bril Juan Pablo Arab Daniel Cabrera Andrea Baragetti Enrica Baldelli Giulia Brigante



Marica Meroni Ljiljana Marina Alessandro Mantovani Ayman M. Mahmoud Simonetta Lugari Loretta L Jophilin Carla Greco Stefano Gitto



 Youth Editorial Board team of **Metabolism and Target Organ Damage (M&TOD)**

Soheib Anwar Mohammed Inamul Kabir Yoon Mee Yang Jun Wang Eleonora Scorletti

Scan the QR code to view the journal website

