



Clinical Guidelines and Real Practice of Antimicrobial Pharmacotherapy

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Clinical guidelines for antimicrobial pharmacotherapy are crucial tools that are based on extensive research, expert consensus, and clinical trials for optimising the treatment of infections. They outline the best practices for selecting effective drugs, appropriate dosing, and treatment duration, and optimise drug efficacy and safety. However, the gap between these guidelines and real-world practice can be significant.

In clinical settings, variability in patient populations, comorbidities, and unique clinical scenarios necessitate deviations from standardised protocols. Clinicians may also face limitations to address patient concerns, or limited access to diagnostic testing. Additionally, the dynamic nature of microbial resistance patterns requires the continuous adaptation of prescribed therapies, which is sometimes beyond the scope of existing guidelines.

Indeed, tailoring guidelines to consider regional factors and implementing antimicrobial stewardship programs that promote responsible prescribing can optimise antibiotic use in real-world settings.

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Message from the Editor-in-Chief

There are very few fields that attract as much attention as scientific endeavor related to antibiotic discovery, use and preservation. The public, patients, scientists, clinicians, policy-makers, NGOs, governments, and supra-governmental organizations are all focusing intensively on it: all are concerned that we use our existing agents more effectively, and develop and evaluate new interventions in time to face emerging challenges for the benefit of present and future generations. We need every discipline to contribute and collaborate: molecular, microbiological, clinical, epidemiological, geographic, economic, social scientific and policy disciplines are all key. *Antibiotics* is a nimble, inclusive and rigorous indexed journal as an enabling platform for all who can contribute to solving the greatest broad concerns of the modern world.

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