Special Issue

Antimicrobial Stewardship in the Management of Bloodstream Infections

Message from the Guest Editors

Bloodstream infections, including bacteremias, fungemias, viremias, and parasitemias, arise from pathogens entering the blood via routes like dental procedures, surgeries, pneumonia, or devices such as catheters. They differ from sepsis, which involves an exaggerated inflammatory response. Bloodborne microbes signal pathological processes that can lead to complications like sepsis, septic shock, or secondary infections (e.g., endocarditis, meningitis). Patients with altered immunity, including those with tumors, hematological malignancies, congenital immune deficiencies, chronic diseases, or specific cohorts like newborns face higher risks. Rising antimicrobial resistance further complicates treatment, underscoring the need for an advanced understanding of pharmacokinetics and pharmacodynamics (PK/PD) in therapy. Therapeutic drug monitoring plays a vital role in optimizing patient outcomes.

Guest Editors

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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 disciples 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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