

Special Issue

Epidemiology and Antimicrobial Dosing Regimens in Intensive Care Units

Message from the Guest Editor

In addition to the choice of antibiotic and the duration of therapy in intensive care medicine, the correct dosage is also crucial for the success of anti-infective therapy and the avoidance of resistance development. Various influencing factors such as hepatic or renal insufficiency and obesity, as well as the effects of severe infections, including sepsis and its course, influence the pharmacokinetics of antibiotics to varying degrees and often make it necessary to adjust the dose. Especially in intensive care medicine in the treatment of serious life-threatening infections, this presents physicians with ever new challenges. This Special Issue, entitled 'Epidemiology and Antimicrobial Dosing Regimens in Intensive Care Units', aims to publish current epidemiological findings and new developments in the dosing of antibiotics in intensive care. This Special Issue welcomes various types of submissions, such as original research papers, short communications, reviews, case reports, and perspectives.

Guest Editor

Prof. Dr. Philipp Simon

Anesthesiology and Operative Intensive Care, Faculty of Medicine, University of Augsburg, Augsburg, Germany

Deadline for manuscript submissions

30 September 2025



Antibiotics

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.7
Indexed in PubMed



mdpi.com/si/217675

Antibiotics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
antibiotics@mdpi.com

[mdpi.com/journal/
antibiotics](https://mdpi.com/journal/antibiotics)





Antibiotics

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.7
Indexed in PubMed



[mdpi.com/journal/
antibiotics](https://mdpi.com/journal/antibiotics)



About the Journal

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.

Editor-in-Chief

Prof. Dr. Nicholas Dixon
School of Chemistry and Molecular Bioscience, University of
Wollongong, Wollongong, NSW 2522, Australia

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Infectious Diseases) / CiteScore - Q1 (General Pharmacology, Toxicology and Pharmaceutics)