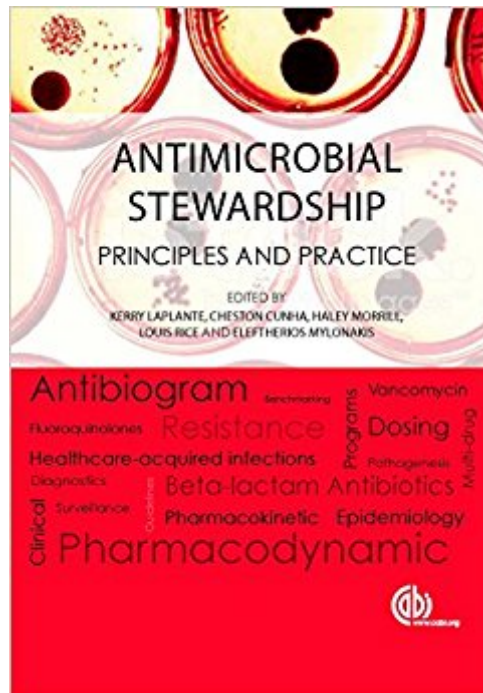




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# Antimicrobial Stewardship: Principles And Practice



## Synopsis

In an age where antimicrobial resistance amongst pathogens grows more prevalent, particularly in the hospital setting, antimicrobial stewardship is an evidence-based, proven measure in the battle against resistance and infection. This comprehensive, definitive reference work is written by an international team of acknowledged experts in the field. The authors explore the effective use of coordinated antimicrobial interventions to change prescribing practice and help slow the emergence of antimicrobial resistance, ensuring that antimicrobials remain an effective treatment for infection. Amongst the first of its kind, Antimicrobial Stewardship provides infectious disease physicians, administrators, laboratory, pharmacy, nursing, and medical staff practical guidance in setting up antimicrobial stewardship programs in their institutions with the aim of selecting the optimal antimicrobial drug regimen, dose, duration of therapy, and route of administration.

## Book Information

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## Customer Reviews

Eleftherios Mylonakis is a physician-scientist, and his work focuses on the study of microbial pathogenesis and drug discovery. His research has developed a novel alternative to studying bacterial and fungal infection and host responses: the use of invertebrate model hosts. These surrogate invertebrate hosts fill an important niche in fungal pathogenesis research. His investigations have identified novel virulence factors, cross kingdom pathogen-pathogen interactions, novel antifungal agents, and evolutionarily conserved traits that are involved in host virulence and immune responses during infection. Recently, Dr. Mylonakis implemented

high-throughput whole-animal *Caenorhabditis elegans* assay to screen libraries of chemical compounds and identify those with antimicrobial activity. In vivo evaluation of libraries of chemical compounds could solve some of the main obstacles in current antifungal discovery, such as finding new classes of compounds and solving the bottleneck of toxicity/efficacy testing. This approach challenges the position that studies in fungal pathogenesis should focus on the analysis of the "host," the "pathogen," or the "antimicrobial compound." Dr. Mylonakis has published over 150 articles in the scientific literature, and peer-reviewed grants from the National Institutes of Health and private foundations have supported his studies. He is the founding Editor-in-Chief of the journal *Virulence* and serves on the editorial boards of many publications and as an ad hoc reviewer for over 40 journals. Louis Rice is at Rhode Island Hospital. Kerry LaPlante is a tenured Professor of Pharmacy at the University of Rhode Island, an Adjunct Professor of Medicine at Brown University, and the Founding Director of the Antimicrobial Stewardship Research Fellowship at the Providence Veterans Medical Center. Her work is dedicated to furthering antibiotic education and research across the full spectrum of healthcare science, from antibiotic development to clinical applications. An internationally recognized leader in the field of antibiotic research, Dr. LaPlante is an elected Fellow of the American College of Clinical Pharmacy, and has served on the editorial boards for the leading journals in pharmacy and pathogenic microbiology. She is frequently invited to lecture at national infectious diseases meetings and symposia, and is an author on over 60 peer-reviewed articles, and book chapters, which span topics from antimicrobial stewardship, antibiotic resistance, drug discovery and in vitro activity of combination antimicrobial agents. Cheston Cunha is at Brown University. Haley Morrill is at Veterans Affairs Medical Center.

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