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1940s to 1960s, but slowed for some decades until the introduction of linezolid in 2000 and daptomycin in 2003 []. Most of the early antibiotics were discovered by screening soil-derived actinomycetes; yet, over time, this source became exhausted and no longer provided novel compounds or a further understanding of the mechanisms of action.

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dependent glyclcycline antibiotic, the fAUC/MIC ratio is also most predictive of efficacy against *S. aureus* and Enterobacteriaceae [28,29]. The dosing strategy for these time-dependent antibiotics is to provide an overall daily dose that achieves the requisite AUC/MIC ratio without decreasing tolerability or increasing adverse events.

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Current Strategies for Antimicrobial Discovery | Microbiology

Antimicrobial stewardship has been defined as “the optimal selection, dosage, and duration of antimicrobial treatment that results in the best clinical outcome for the treatment or prevention of infection, with minimal toxicity to the patient and minimal impact on subsequent resistance.”⁹ The goal of antimicrobial stewardship is 3-fold.

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