

Reducing Antimicrobial Resistance: Shifting the Paradigm Through Antibiotic Stewardship Emphasizing Evidence-Based Practices & Interprofessional Collaboration

online modules

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Provided by:

**University of Kentucky College of Nursing, Kentucky Department of Public Healthcare-associated/
Antibiotic Resistance (HAI/AR) Prevention Program, and Atom Alliance**





Overview:

The rapid emergence and proliferation of multidrug resistant micro-organisms (MDROs) threaten society's ability to effectively treat common infections caused by bacteria, parasites, viruses, and fungi in patients throughout the world. Multidrug-resistant organisms have the potential to be transmitted from one person to another resulting in costly infections that are difficult to treat. In the United States, at least 2 million people each year acquire serious infections with bacteria that are resistant to at least one or more of the antibiotics designed to treat those infections. In addition, new resistance mechanisms among microorganisms are emerging and spreading rapidly throughout the globe.

Antibiotic use is recognized as the primary selective pressure driving antimicrobial resistance (AR) as resistance is a natural process in the evolution of bacteria and microorganisms. However, in the United States, the Centers for Disease Control and Prevention (CDC) estimates that up to 50% of all antibiotic use in humans and much of the antibiotics used in animals are unnecessary and inappropriate. This has resulted in an increase in AR that jeopardizes the health of patients throughout the world. Therefore, improving antibiotic use through judicious practice is viewed as one of the most important methods in reducing antibiotic resistance and preserving the ability of antibiotics to fight infection and protect patients

Learning Outcome: Participants will be able to provide information for improvement of antibiotic prescribing in their healthcare settings.

Objectives: The attendees of this program will be able to:

- Describe information on best practices and recommended guidelines surrounding antibiotic prescribing;
- Provide information and guidelines for implementation of Antimicrobial Stewardship programs within particular healthcare settings;
- Plan successful methods for interprofessional collaboration of prescribing providers, organizational leadership, pharmacists, and non-prescribing nursing staff.

Target Audience: All healthcare practitioners responsible for prescribing antibiotics as well as non-prescribing registered nurses, pharmacists, infection preventionists, and quality staff.

The content is solely the responsibility of the authors and does not necessarily represent the official views of the Agency of Healthcare Research and Quality.

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Acknowledgements

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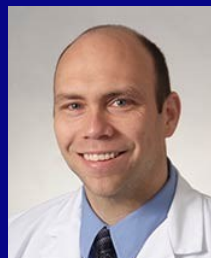
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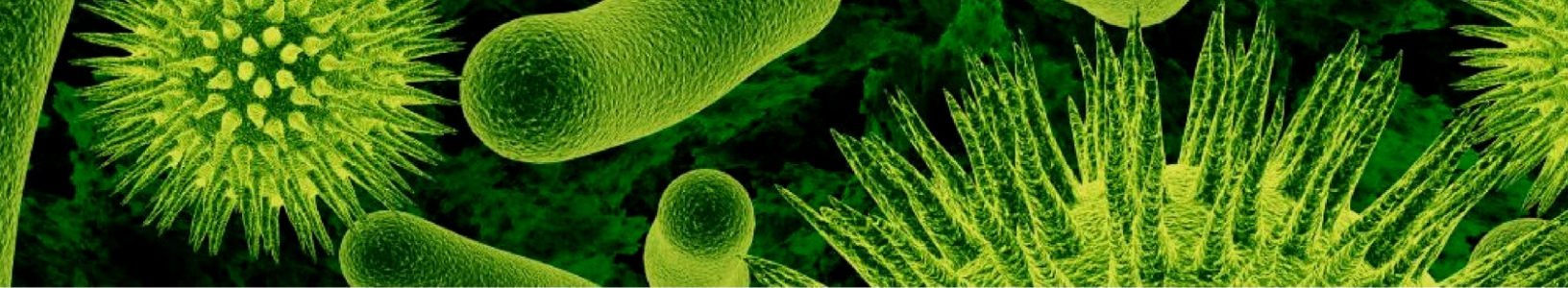
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Faculty Disclosure

No speaker, planners or content reviewers have any relevant financial relationships to disclose.

The material presented in this course represents information obtained from the scientific literature as well as the clinical experiences of the speakers. In some cases, the presentations might include discussion of investigational agents and/or off-label indications for various agents used in clinical practice. Speakers will inform the audience when they are discussing investigational and/or off-label uses.

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Module Title

Antibiotic Stewardship (AS) in Kentucky: Current State and Evaluation of Successful AS Programs -

<https://www.cecentral.com/activity/dev/16693>

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Antibiotic Stewardship: Regulations, Mandates, and Use of National Healthcare Safety Network (NHSN) -

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Evidence-Based Practice Guidelines and Strategies for Implementing Antibiotic Stewardship Programs in Healthcare Settings -

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Interprofessional Collaboration – Why is it Important? - <https://www.cecentral.com/activity/dev/16723>

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Bugonomics: Cost of Unnecessary Antibiotic Use - <https://www.cecentral.com/activity/dev/16724>

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Diagnostic Stewardship: A Key to Decreasing Unnecessary Antimicrobial Use -

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The Overlooked and Often Underutilized Role of Nurses in Building Success Antibiotic Stewardship Programs -

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Leadership Challenges in Antibiotic Stewardship in Rural and Appalachia Populations -

<https://www.cecentral.com/activity/dev/16727>

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