



Program Title: Consultant Pharmacist Training to Promote and Support Antimicrobial Stewardship in Long-Term Care: A UNMC ID Project ECHO Series

Program Objectives:

1. Explain appropriate antibiotic prescribing and utilization in long-term care settings using the CDC Core Elements of Antibiotic Stewardship in Nursing Homes as a framework.
2. Implement and sustain quality improvement initiatives related to antibiotic stewardship through development of an antibiotic stewardship program in the facility.
3. Promote the use of data-driven decision-making for optimizing antibiotic prescribing practices.
4. Summarize antibiotic stewardship fundamentals, including microbiology, adverse events, drug interactions, and renal dose adjustments.
5. Describe strategies for effective antibiotic stewardship communication, education to various audiences, and navigation of barriers in an interactive group setting.

Didactic Sessions (6)

Session I: Introduction to the Core Elements of Antibiotic Stewardship in Nursing Homes

Date/Time: Friday, August 18, 2023 12:00 PM CST

Speaker: Trevor VanSchooneveld, MD

Professor, UNMC Division of Infectious Diseases, Department of Internal Medicine

Director, UNMC Infectious Diseases Fellowship Program

Medical Director, Nebraska Medicine Antimicrobial Stewardship Program

Co-Medical Director, Nebraska Antimicrobial Stewardship Assessment and Promotion Program, Nebraska Medicine

ACPE UAN: 0128-9999-23-027-H01-P

CPE: 1.0 contact hour / Knowledge-based CPE activity

Objectives:

- Discuss the driving forces behind the need for antimicrobial stewardship.
- Describe antimicrobial stewardship strategies.
- Identify the CDC Core Elements of antimicrobial stewardship in long-term care facilities.

Session II: Appropriateness of Antibiotics for Infections in Long-Term Care

Date/Time: Friday, September 22, 2023 12:00 PM CST

Speaker: Clayton Mowrer, DO

Leadership in Epidemiology, Antibiotic Stewardship, and Public Health CDC Fellow, University of Nebraska Medical Center

ACPE UAN: 0128-9999-23-028-H01-P

CPE: 1.0 contact hour / Knowledge-based CPE activity

Objectives:

- Describe the assessment process for a long-term care resident with potential infection.
- List hallmarks of infection and accurate diagnosis for common infections, including urinary tract and respiratory infections.
- Explain the process of selecting appropriate empiric and definitive antimicrobial therapy in older adults.

Session III: Antimicrobial Stewardship Program Implementation and Practical Implementation Toolkit

Date/Time: Friday, October 27, 2023 12:00 PM CST

Speaker: M. Salman Ashraf, MBBS

Medical Director, Nebraska DHHS Healthcare Associated Infections and Antimicrobial Resistance Program
Associate Professor, UNMC Division of Infectious Diseases, Department of Internal Medicine

ACPE UAN: 0128-9999-23-029-H01-P

CPE: 1.0 contact hour / Knowledge-based CPE activity

Objectives:

- Identify the main interventions that will help facilities achieve compliance with 7 core elements for antimicrobial stewardship.
- Recall the procedure of implementing UTI SBAR tool intervention in Nursing Homes.
- Describe the role of pharmacists and nursing homes in the data collection for the program.

Session IV: Using Data to Drive an Antimicrobial Stewardship Program

Date/Time: Friday, November 17, 2023 12:00 PM CST

Speaker: Alex Neukirch, PharmD

Consultant Pharmacist, Consonus Pharmacy

ACPE UAN: 0128-9999-23-030-H01-P

CPE: 1.0 contact hour / Knowledge-based CPE activity

Objectives:

- Review the use of a checklist to determine antimicrobial appropriateness.
- Outline prescriber feedback letter templates based on appropriateness review.
- Explain potential antibiotic use summary data for reporting to facility ASP / QAPI.
- Assist infection preventionists in understanding use data and antimicrobial stewardship strategies.

Session V: Microbiology 101 for the Consultant Pharmacist

Date/Time: Friday, December 15, 2023 12:00 PM

Speaker: Richard Hankins, MD

Assistant Professor, UNMC Division of Infectious Diseases, Department of Internal Medicine
Associate Medical Director, Antimicrobial Stewardship - Nebraska Medicine Bellevue

ACPE UAN: 0128-9999-23-035-H01-P

CPE: 1.0 contact hour / Knowledge-based CPE activity

Objectives:

- Explain how organisms are identified in the microbiology laboratory using traditional, non-culture based, and rapid methods of identification.
- Define methods for susceptibility testing and interpretation of susceptibility results.
- Recognize resistance mechanisms of concern in long-term care, primarily extended-spectrum beta-lactamase production and carbapenem resistance.



Session VI: Optimizing Antibiotic Therapy: Managing Adverse Events, Drug Interactions, and Renal Adjustments

Date/Time: Friday, January 26, 2024 12:00 PM

Speaker: Jenna Preusker, PharmD

Pharmacist Coordinator, Nebraska Antimicrobial Stewardship Assessment and Promotion Program, Nebraska Medicine
Pharmacist, Nebraska DHHS Healthcare Associated Infections and Antimicrobial Resistance Program

ACPE UAN: 0128-9999-24-001-H01-P

CPE: 1.0 contact hour / Knowledge-based CPE activity

Objectives:

- Identify common antibiotic-related adverse effects and strategies to mitigate these risks.
- Recognize significant antibiotic drug interactions and their potential consequences.
- Explain the importance of antibiotic renal dose adjustments and summarize different dosing strategies for patients with renal impairment.

Office Hours/Roundtable Sessions (4) – Spring 2024

15-20 minutes of didactic education followed by presenter-facilitated group discussion

Session I: Becoming an Effective Antimicrobial Stewardship Educator

Date: March 2024

Presenters: M. Salman Ashraf, MBBS, Clayton Mowrer, DO, and Jenna Preusker, PharmD

ACPE UAN: 0128-9999-24-002-H01-P

CPE: 1.0 contact hour / Application-based CPE activity

Objective: Explore various educational opportunities for antimicrobial stewardship in long-term care, including in-service presentations, staff presentations, newsletters, and hand-outs to residents and families.

Session II: Communication Strategies for Antimicrobial Stewards

Date: April 2024

Presenters: M. Salman Ashraf, MBBS, Clayton Mowrer, DO, and Jenna Preusker, PharmD

ACPE UAN: 0128-9999-24-003-H01-P

CPE: 1.0 contact hour / Application-based CPE activity

Objective: Discover ways to approach communication in antimicrobial stewardship that increases engagement and decreases conflict.

Session III: Putting Antimicrobial Stewardship Data into Action

Date: May 2024

Presenters: M. Salman Ashraf, MBBS, Clayton Mowrer, DO, and Jenna Preusker, PharmD

ACPE UAN: 0128-9999-24-004-H01-P

CPE: 1.0 contact hour / Application-based CPE activity

Objective: Learn to use antimicrobial stewardship data to foster a collaborative approach to antibiotic use and empower individuals to make responsible choices.

Session IV: Navigating barriers in Antimicrobial Stewardship

Date: June 2024

Presenters: M. Salman Ashraf, MBBS, Clayton Mowrer, DO, and Jenna Preusker, PharmD

ACPE UAN: 0128-9999-24-005-H01-P

CPE: 1.0 contact hour / Application-based CPE activity

Objective: Identify and analyze common barriers encountered by long-term care antimicrobial stewardship programs.