

Name of Policy: <u>Antimicrobial Stewardship</u> Policy Number: 3364-100-70-16 Department: Hospital Administration Approving Officer: Chief Executive Officer Chief of Staff Responsible Agent: Director of Pharmacy Scope: University of Toledo Medical Center and its Medical Staff	 Effective Date: 10/01/2023 Initial Effective Date: 1/1/2017
<input type="checkbox"/> New policy proposal <input type="checkbox"/> Major revision of existing policy	<input type="checkbox"/> Minor/technical revision of existing policy <input checked="" type="checkbox"/> Reaffirmation of existing policy

(A) Policy Statement

The University of Toledo Medical Center will implement, develop, and support an antimicrobial stewardship program (ASP) based on current scientific literature.

(B) Purpose of Policy

Antimicrobial resistance is a public health threat and leads to at least two million illnesses and 23,000 deaths annually in the United States¹. In September 2014, the President’s Council of Advisors on Science and Technology (PCAST) prepared a report providing recommendations on combating antimicrobial resistance. One of these key recommendations focuses on improving stewardship of existing antibiotics and by 2017 the Centers for Medicare and Medicaid Services (CMS) require hospitals and long-term care facilities “to develop and implement robust antibiotic stewardship programs that adhere to best practices”².

The ASP at the University of Toledo Medical Center will follow best practices to combat antimicrobial resistance and improve appropriate antibiotic use according to the following mission, goals, and objectives.

(C) Procedures

1. Mission
 - a. Improve the quality of patient care through appropriate use of anti-infective agents

2. Overall Goals
 - a. Improve patient outcomes
 - b. Improve patient safety
 - c. Minimize resistance/collateral damage
 - d. Minimize cost

3. Specific Objectives
 - a. Achievement of the goals of the ASP will be monitored and evaluated via specific objectives as outlined in the Antimicrobial Stewardship PMAAR (Plan, Measure, Analyze, Act, Review)
 - b. The results of the Antimicrobial Stewardship PMAAR will be reported quarterly to the Antimicrobial Subcommittee then disseminated institutionally via the Pharmacy and Therapeutics Committee

4. Antimicrobial Subcommittee

a. Core Members

- i. Executive Owner
 1. Chief Medical Officer
- ii. Chair
 1. Antimicrobial Stewardship Program Director
- iii. Secretary
 1. Antimicrobial Stewardship Pharmacist
- iv. Regular Members
 1. Infectious Diseases Physicians
 2. Pharmacy
 3. Microbiology
 4. Infection Prevention and Control
 5. Quality
 6. Information Technology
 7. Critical Care Physician
 8. Hospitalist Physician
 9. Surgical Physician

b. Responsibilities

- i. Develop and implement initiatives to ensure rational and appropriate use of antimicrobial agents and promote data-driven, evidence-based strategies to optimize antimicrobial use
- ii. Oversee the implementation and utilization of computer-based surveillance tools to track antimicrobial stewardship interventions
- iii. Review antimicrobial susceptibility rates via annual reports from the clinical microbiology laboratory
- iv. Review antimicrobial formulary for changes regarding antimicrobial agents as necessary
- v. Establish mechanisms to effectively assess and measure antimicrobial therapy
- vi. Improve awareness and knowledge of antimicrobial stewardship through facility-wide educational efforts
- vii. Provide quarterly report of activities and recommendations to the Pharmacy and Therapeutics Committee

5. Key Strategies

- a. Prospective monitoring with intervention and feedback
 - i. Antimicrobial stewardship pharmacist reports (e.g., positive culture results)
 - ii. Reviewed daily with direct interaction and feedback to the prescriber and documentation in pharmacy intervention system
- b. Formulary restriction/preauthorization or criteria-monitored antimicrobials
- c. Pathways for empiric use and antimicrobial order forms
 - i. Evidence-based, customized for local microbiology and resistance patterns
- d. Education
- e. Streamlining or de-escalation of therapy
 - i. Automatic stop dates
 - ii. De-escalation upon culture finalization
 - iii. Reduction in duplicate therapies (e.g., double β -lactam or double anaerobe)
 - iv. Discontinuation of unnecessary or inappropriate antimicrobial therapy

