




| | |
|---|--|
| Current Status: <i>Active</i> | PolicyStat ID: 6037466 |
|  | Origination: 03/2019 |
| | Effective: 03/2019 |
| | Last Approved: 03/2019 |
| | Last Revised: 03/2019 |
| | Next Review: 03/2022 |
| | Owner: <i>Sherie Goldbach: Infection Prevention Registrar</i> |
| | Policy Area: <i>Infection Prevention</i> |
| | Applicability: <i>UNC Medical Center</i> |

Antimicrobial Stewardship Program Policy

I. Description

This policy outlines the duties and responsibilities of the members of the UNC Medical Center (UNCMC) Antimicrobial Stewardship Program (ASP) and details its reporting structure.

II. Rationale

The purpose of the UNCMC ASP is to promote appropriate use of the antimicrobials, minimize adverse effects, prevent antimicrobial resistance, and improve patient outcomes. The ASP will implement and monitor compliance with evidence-based guidelines or best practices regarding antimicrobial prescribing as described by IDSA/SHEA guidelines for antimicrobial stewardship and the CDC Core Elements for Hospital Antibiotic Stewardship. 1, 2

III. Policy

A. Definitions

1. UNCMC ASP: This program is led by adult and pediatric infectious diseases (ID) physicians and ID clinical pharmacists. The ASP is supported by clinical microbiologists, epidemiologists, and information technology (IT) specialists. The team is responsible for appropriate use of antimicrobial therapy and quality of infection-related care at UNCMC
 - a. **ASP Medical Director:** ID physician responsible for overall direction of ASP, education, and goal development.
 - b. **ASP Pharmacist(s):** ID pharmacist(s) responsible for daily antimicrobial alert review and interventions, consulting with clinicians, and performing duties as assigned by the ASP Medical Director.

B. Service Hours & Contact Information

1. Hours of Operation:
 - a. Monday – Friday: 0800 – 1700
 - i. Weekends/Holidays: 0800 – 1700 by pager only
 - b. Contact:

- i. ASP clinician pager: "ID Antimicrobial Stewardship" in the online directory.
- ii. ASP members may also be contacted via their UNC email.

C. Duties & Responsibilities

1. Duties and responsibilities of the **ASP**:

- a. Provide antimicrobial education and resources to support patient care activities at UNCMC.
- b. Develop and implement policies/procedures that support rational antimicrobial use.
- c. Identify ASP goals each fiscal year.
- d. Collect and assemble antimicrobial use data and report this data to the UNCMC Pharmacy and Therapeutics (P&T) Committee or designated quality groups.
- e. Assist Infection Control and Hospital Epidemiology in efforts to identify and control outbreaks through focused monitoring and /or restriction of antimicrobials in targeted units.

2. Duties and responsibilities of the **ASP Medical Director**:

- a. Ensure therapeutic guidelines, antimicrobial restriction policies, and other ASP products and activities directed measures are evidence-based, providing safe and effective therapy for patients.
- b. Provide recommendations on policies and decisions regarding the use of antimicrobials at UNCMC to the P&T Committee.
- c. Intervene on antimicrobial decisions utilizing a hybrid strategy of prospective audits and authorization of restricted antimicrobials with support of the ASP pharmacists.
- d. Provide consultation on antimicrobial treatment of difficult cases as determined by the ASP pharmacists.
- e. Document, with support of ASP pharmacists, clinical interventions and associated outcomes.
- f. Liaise between the Department of Pharmacy, Department of Medicine – Infectious Diseases Division, Microbiology, and Hospital Epidemiology to assure activities related to antimicrobial use and infection prevention are coordinated and consistent.

3. Duties and responsibilities of the ASP Pharmacist:

- a. Ensure therapeutic guidelines, antimicrobial restriction policies, and other ASP products and activities are evidence-based, providing safe and effective therapy for patients.
- b. Provide recommendations on policies and decisions regarding the use of antimicrobials at UNCMC to the P&T Committee.
- c. Responsible for daily review of surveillance alerts as prioritized by the ASP. These alerts are based on patient level microbiology results and antimicrobial pharmacotherapy.
- d. Intervene on antimicrobial decisions as appropriate utilizing a hybrid strategy of prospective audits of antimicrobials and authorization of restricted antimicrobials with support of the ASP medical director.
- e. Be available for consultation by UNCMC clinicians regarding judicious use of the

antimicrobials.

- f. Document clinical interventions and associated outcomes.
- g. Conduct medication use evaluations related to antimicrobials as prioritized by the ASP.

D. Functions of ASP Advisory Staff

1. Director, Clinical Microbiology (or designee)

- a. Collaborate with the ASP on projects designed to improve antimicrobial use at UNCMC.
- b. Prepare and distribute antibiograms, specific to community, inpatient, and intensive care populations on a periodic basis.
- c. Report timely and accurate microbiology susceptibility test results in order to decrease use of broad-spectrum antibiotics and encourage focused antimicrobial selection.

2. Director, Hospital Epidemiology (or designee)

- a. Provide expertise in surveillance and study design to evaluate the effects of antimicrobial stewardship initiatives.
- b. Gather data on healthcare-associated infections to aid the stewardship team's initiative planning and evaluation of outcomes and strategies.

3. Pharmacy Analytics and Outcomes, Department of Pharmacy

- a. Assist in the abstraction, organization, and analysis of data related to antimicrobial use and resistance at UNCMC.

E. Reporting Structure

- 1. The UNCMC ASP reports to the Regional Director of Pharmacy Services (pharmacist personnel) and Director of Hospital Epidemiology (all other personnel), who reports to the UNCMC Chief Medical Officer.
- 2. The ASP provides routine reports, recommendations, and guidance to UNC Hospitals Infection Control Committee (HICC), and the UNCMC P&T Committee. Both of these committees report to the Medical Staff Executive Committee. Periodic reports may be provided to other hospital safety and quality committees on an *ad hoc* basis.

IV. References

- 1. Barlam TF, Cosgrove SE, Abbo LM, et al. Implementing an Antibiotic Stewardship Program: Guidelines by the Infectious Diseases Society of America and the Society of Healthcare Epidemiology of America. *Clinical Infectious Diseases* 2016; 62(10) e51-e77.
- 2. CDC. Core Elements of Hospital Antibiotics Stewardship Programs. Atlanta, GA: US Department of Health and Human Services, CDC; 2014. Available at <http://www.cdc.gov/getsmart/healthcare/implementation/core-elements.html>.

V. Responsible for Content

Director, Hospital Epidemiology

UNC Hospitals Infection Control Committee
Anti-Infective Pharmacy & Therapeutics Subcommittee
Pharmacy & Therapeutics Committee

Attachments:

No Attachments

Approval Signatures

| Step Description | Approver | Date |
|---------------------------|---|---------|
| Policy Stat Administrator | Patricia Ness: Nurse Educator | 03/2019 |
| | Thomas Ivester: CMO/VP Medical Affairs | 03/2019 |
| | Emily Vavalle: Director, Epidemiology | 02/2019 |
| | Sherie Goldbach: Infection Prevention Registrar | 02/2019 |

Applicability

UNC Medical Center

COPY