

## Acute Care Antimicrobial Stewardship Program

### Vision

*Using antibiotics wisely while preserving their value*

### Mission

*To optimize antibiotic use through targeted, evidence informed and measurable initiatives*

### Goals

1. *Ensure infections are managed effectively, with preservation of the value of antimicrobials*
2. *Optimize clinical outcomes in Albertans receiving antimicrobials to decrease infection-related morbidity and mortality*
3. *Minimize antimicrobial-related adverse effects, toxicities and promote patient safety*
4. *Minimize unintended consequences of antimicrobial use, such as selection of antibiotic resistant strains and Clostridium difficile infection*
5. *Use standardized tools to measure antimicrobial utilization within acute care institutions across Alberta*
6. *Identify and address gaps to create a sustainable antimicrobial stewardship program*
7. *Ensure antimicrobial stewardship activities within AHS are evidence based and have measurable processes and outcomes*
8. *Provide education to healthcare providers and other relevant staff on improving antimicrobial prescribing*
9. *Initiate, participate in, and promote research related to the utilization of antimicrobials*

### Objectives

**The Antimicrobial Stewardship Committee (ASC) of the Drugs & Therapeutics Committee (DTC) will focus on the following provincial strategic objectives:**

1. *Maintain a responsive and well-structured provincial antimicrobial hospital formulary*
2. *Maintain evidence based guidelines, restrictions and therapeutic interchanges for antimicrobials*
3. *Develop methods to evaluate the effectiveness of guidelines, restrictions and therapeutic interchanges for antimicrobials*
4. *Support and promote Bugs & Drugs as the main antimicrobial reference used in antimicrobial stewardship*
5. *Establish and implement antimicrobial stewardship programs within health zones across Alberta*
6. *Provide guidance on appropriate resources to support site and zone based stewardship programs*

7. *Develop internal reports on antimicrobial utilization at regular intervals*
8. *Develop external reports on antimicrobial stewardship program initiatives from across Alberta and an annual summary report of initiatives*
9. *Review internal and external reports on infection control indicators at regular intervals, such as targeted antimicrobial resistant organisms (ARO) and C. difficile infection (CDI), in collaboration with the Infection Prevention & Control Surveillance Program*
10. *Facilitate collaboration and exchange of education and design materials from initiatives among zones*
11. *Provide guidance and/or collaborate with other groups to create/review order sets/pathways that include antimicrobials*
12. *Use standardized measurement tools for antimicrobial utilization within acute care institutions across Alberta*

## References

### [Canadian Antimicrobial Resistance Surveillance System Report 2016](#)

Dellit TH, Owens RC, McGowan JE, Gerding DN, Weinstein RA, Burke JP, et al. Infectious Diseases Society of America and the Society for Healthcare Epidemiology of America guidelines for developing an institutional program to enhance antimicrobial stewardship. *Clin Infect Dis* 2007; 44:159-77.

Standiford, Harold C et al. "Antimicrobial stewardship at a large tertiary care academic medical center: cost analysis before, during, and after a 7-year program." *Infection Control and Hospital Epidemiology* 33.4 (2012): 338-345.

Accreditation Canada Required Organizational Practices

<https://insite.albertahealthservices.ca/main/assets/tms/acrd/tms-acrd-antimicrobial-stewardship.pdf>

Report of the Auditor General of Alberta, Spring 2015

[http://www.oag-bvg.gc.ca/internet/English/parl\\_oag\\_201504\\_01\\_e\\_40347.html](http://www.oag-bvg.gc.ca/internet/English/parl_oag_201504_01_e_40347.html)