Antimicrobial Stewardship Certificate Program

Certificate Program Description
The Society of Infectious Diseases Pharmacists' (SIDP) Antimicrobial Stewardship Certificate Program is an innovative practice-based activity focusing on the steward's role in the appropriate use of antimicrobial agents. The program, which emphasizes a health care team approach, seeks to foster the development of a strong knowledge base in microbiology, pharmacology and fundamentals of successful antimicrobial stewardship programs. The program includes core content applicable to many different practice settings. Additional resources are provided to guide participants on implementation of antimicrobial stewardship initiatives in various practice areas focusing on unique challenges and characteristics relevant to the setting (e.g., academic medical center, community hospital, emergency and urgent care, ambulatory care). Participants completing the certificate program will gain knowledge and skills to successfully implement new stewardship programs and/or grow existing ones that serve to improve patient care, reduce healthcare expenditures, and potentially reduce rates of antimicrobial resistance. This program, originally established in 2010 and restructured in 2023, has been a resource for pharmacists and other healthcare professionals world-wide in meeting educational needs for antimicrobial stewardship.

Antimicrobial Stewardship Certificate Program Target Audience and Goals
This activity was planned to meet the educational needs of pharmacists. At the completion of this program, the participant will be able to:
1. Outline the essentials of clinical microbiology, pharmacology, pharmacokinetics, pharmacodynamics, and fundamentals of Antimicrobial Stewardship Programs
2. Identify the skills needed to establish and/or expand an antimicrobial stewardship program
3. Implement interventions to improve patient care, minimize resistance and cost, and prolong the longevity of antimicrobials through a final project
4. Explain how to evaluate the effectiveness of an antimicrobial stewardship program through the measurement of outcomes

Antimicrobial Stewardship Certificate Program Structure
The antimicrobial stewardship certificate training program is conducted in three parts. Each part must be completed prior to starting the next one. The program should be completed within 1 year of the purchase date. Suggested time frame for completion of each Part of the program is provided below.

Part 1 – Core Content	Self-study learning component available online (approx. 3 months)
Part 2 – Application	Self-study learning component available online (approx. 2 months)
Part 3 – Project	Self-study learning component available online and skills component completed in the practice setting (approx. 4 months)

A Certificate of Achievement will be awarded to participants who successfully complete all three program components. Participants who successfully complete the program will be eligible for a complimentary associate SIDP membership for one year.

Part 1 – Core Content
The first component of the program consists of self-study modules available for viewing online. The goal of Part 1 is to provide foundational knowledge relevant for pharmacists engaging in antimicrobial stewardship initiatives. Topics, learning objectives, and length of time to complete each self-study module are noted in the outline below.

Participants are encouraged to complete the sections in the order listed.

Antimicrobial Fundamentals

Part 1: Key Concepts (ACPE UAN: 0672-0000-23-021-P, Knowledge-based, 0.75 contact hour, Release: 5/31/2023, Expiration: 5/31/2026)

- Outline key concepts and terminology related to antimicrobial pharmacotherapy
- Describe antimicrobial pharmacokinetic (PK) and pharmacodynamic (PD) principles
- Apply PK and PD to drug dosing strategies and antimicrobial susceptibility
- Describe the general approach to treatment of a patient with an infection

Part 2: Beta – lactams (ACPE UAN: 0672-0000-23-022-H01-P, Knowledge-based, 1.75 contact hour, Release: 5/31/2023, Expiration: 5/31/2026)

- Recognize mechanisms of action of antimicrobial agents
- Describe common and clinically important adverse events with different antimicrobial agents
- Identify clinically significant drug interactions
- Outline antimicrobial agents active against common pathogens and incorporate into treatment decisions, particularly when selecting empiric or definitive treatment
- Describe common mechanisms of resistance in key pathogens

Part 3: Fluoroquinolones and Aminoglycosides (ACPE UAN: 0672-0000-23-023-H01-P, Knowledge-based, 0.75 contact hour, Release: 5/31/2023, Expiration: 5/31/2026)

- Recognize mechanisms of action of antimicrobial agents
- Describe common and clinically important adverse events with different antimicrobial agents
- Identify clinically significant drug interactions
- Outline antimicrobial agents active against common pathogens and incorporate into treatment decisions, particularly when selecting empiric or definitive treatment

Part 4: Drugs for Resistant Gram-Positive Infections (ACPE UANs: 0672-0000-23-024-H01-P, Knowledge-based, 0.75 contact hours, Release:5/31/2023; Expiration: 5/31/2026)

- Recognize mechanisms of action of antimicrobial agents
- Describe common and clinically important adverse events with different antimicrobial agents
- Identify clinically significant drug interactions
- Outline antimicrobial agents active against common pathogens and incorporate into treatment decisions, particularly when selecting empiric or definitive treatment
- Describe common mechanisms of resistance in key pathogens

Part 5: Macrolides, Tetracyclines, and everything else! (ACPE UAN: 0672-0000-23-025-H01-P, Knowledge-based, 0.75 contact hour each, Release: 5/31/2023, Expiration: 5/31/2026)

- Recognize mechanisms of action of antimicrobial agents
- Describe common and clinically important adverse events with different antimicrobial agents
- Identify clinically significant drug interactions
- Outline antimicrobial agents active against common pathogens and incorporate into treatment decisions, particularly when selecting empiric or definitive treatment
- Describe common mechanisms of resistance in key pathogens

Clinical Microbiology

A Primer: Clinical Microbiology and Diagnostic Stewardship (ACPE UAN: 0672-0000-23-020-H01-P, Knowledge-based, 0.75 contact hour, Release: 5/31/2023, Expiration: 5/31/2026)

- Classify bacterial organisms based on unique morphological characteristics and translate this information to patient care
- Describe methods used in the microbiology laboratory to isolate and identify bacterial organisms
- Identify typical culture types and assess culture quality
- Recognize the importance of the microbiologist and clinician partnership
- Review strategies for implementation of diagnostic stewardship in the microbiology laboratory

Rapid Diagnostic Testing (RDT) (ACPE UAN: 0672-0000-23-019-H01-P, Knowledge-based, 0.25 contact hour, Release: 5/31/2023, Expiration: 5/31/2026)

- Discuss the benefits of rapid diagnostic testing (RDT)
- Compare RDT platforms available for diagnosis of blood stream infections
- Assess factors that may impact RDT cost-effectiveness

Antimicrobial Susceptibility Testing (AST) and Clinical Application (ACPE UAN: 0672-0000-23-018-H01-P, Knowledge-based, 0.25 contact hour, Release: 5/31/2023, Expiration: 5/31/2026)

- Describe the difference between a minimum inhibitory concentration (MIC) and a susceptibility breakpoint
- Recognize commonly utilized manual and automated susceptibility tests
- Explain the role of Food and Drug Administration (FDA) and Standards Development Organization (SDO) in setting breakpoints and evaluate data required to set or revise a breakpoint
- Interpret susceptibility testing results

Stewardship Fundamentals

Antimicrobial Stewardship Principles and Goals (ACPE UAN: 0672-0000-23-026-H01-P, Knowledge-based, 3.0 contact hours, Release: 5/31/2023, Expiration: 5/31/2026)

- Summarize general principles and goals of antimicrobial stewardship
- Locate evidence-based resources to inform antimicrobial stewardship initiatives
- Identify roles of each discipline within interdisciplinary antimicrobial stewardship teams
- Describe the purpose of the Centers for Disease Control and Prevention (CDC) Core Elements and corresponding international guidance
- Outline components of each Core Element of Antibiotic Stewardship
- Compare and contrast strategies for implementing the Core Elements dependent on patient care setting
- Outline approaches to antimicrobial stewardship in resource-limited settings
- Explain the role of diagnostic stewardship as a tool for improving antimicrobial utilization

Communication
Increasing Influence: Communication Strategies for Antimicrobial Stewards (ACPE UAN: 0672-0000-23-029-H01-P, Knowledge-based, 2.0 contact hours, Release: 5/31/2023, Expiration: 5/31/2026)

- Summarize the importance of social dynamics for change in healthcare
- Outline the social determinants of antimicrobial prescribing
- Identify common communication challenges in antimicrobial stewardship
- Describe strategies that antimicrobial stewards can use to communicate effectively with different stakeholders to improve prescribing

C-Suite Pitch
Pitching an Antimicrobial Stewardship Program to the C-Suite (ACPE UAN: 0672-0000-23-030-H01-P, Knowledge-based, 1.0 contact hour, Release: 5/31/2023, Expiration: 5/31/2026)

- Collaborate with leadership and stewardship team members regarding antimicrobial stewardship goals and strategy
- Identify and preempt challenges and barriers to successful implementation of antimicrobial stewardship programs
- Develop a business plan explaining how a stewardship program adds value in order to justify support

Part 2 – Application of Stewardship Principles to Various Practice Settings
The second component of the certificate training program consists of completing self-study modules from the content listed below. The goal of Part 2 is to expand on general stewardship principles learned in Part 1 to develop strategies for implementation and/or growth of stewardship initiatives in different patient care areas. Evidence-based treatment of infectious diseases commonly encountered in each setting and strategies for stewardship interventions are discussed within each module. There are two categories of content – acute care and electives. Participants are required to complete a minimum of one module from the acute care category and a minimum of two modules from the electives category. The participant can elect to complete additional modules, if desired.

Acute Care (minimum of one required)
Academic Hospitals (ACPE UAN: 0672-0000-23-031-H01-P, Knowledge-based, 2.5 contact hours, Release: 5/31/2023, Expiration: 5/31/2026)

- Outline approaches for implementation of the Core Elements including broad stewardship strategies, pharmacy driven interventions, infection/syndrome specific interventions, and hospital discharge
- Prioritize implementation efforts based on factors including anticipated clinical impact, time and resources needed, and institutional value
- Identify stakeholders of antimicrobial stewardship efforts, opportunities for collaboration and potential pitfalls
- Describe opportunities and effective methods for education of healthcare providers
- Collaborate with healthcare trainees (residents/fellows, students) to enhance stewardship efforts
- Develop strategies for tracking and reporting meaningful outcome metrics
- Anticipate and preempt challenges and barriers to successful implementation of antimicrobial stewardship programs

Community and Critical Access Hospitals (ACPE UAN: 0672-0000-23-032-H01-P, Knowledge-based, 2.5 contact hours, Release: 5/31/2023, Expiration: 5/31/2026)

- Collaborate with leadership and stewardship team members to develop goals and facilitate a strong multidisciplinary program that is sustainable in community and critical access hospitals
- Outline approaches for implementation of the Core Elements including broad stewardship strategies, pharmacy driven interventions, infection/syndrome specific interventions, and hospital discharge
- Describe opportunities and effective methods for education of healthcare providers
- Develop strategies for tracking and reporting meaningful outcome metrics
- Identify and preempt challenges and barriers to successful implementation of antimicrobial stewardship programs in community and critical access hospitals

Electives (minimum of two required)
Outpatient Parenteral Antimicrobial Therapy (OPAT) (ACPE UAN: 0672-0000-23-033-H01-P, Knowledge-based,

1.0 contact hour, Release: 5/31/2023, Expiration: 5/31/2026)
- Describe the benefits of developing an OPAT program
- Identify key components to implement when starting an OPAT program
- Identify antimicrobial stewardship strategies and challenges in the OPAT setting
- Discuss tracking and reporting of key OPAT quality metrics

Emergency Department and Urgent Care (ACPE UAN: 0672-0000-23-035-H01-P, Knowledge-based, 1.0 contact hour, Release: 5/31/2023, Expiration: 5/31/2026)
- Collaborate with leadership and stewardship team members regarding antimicrobial stewardship goals
- Develop strategies for tracking and reporting outcome metrics
- Describe opportunities and effective methods for education of healthcare providers and patients about antimicrobial stewardship
- Outline approaches for implementation of at least one policy or practice to improve antibiotic use, including decision-support tools and syndrome specific interventions
- Identify and preempt challenges and barriers to successful implementation of antimicrobial stewardship programs in the emergency department and urgent care settings

Ambulatory Care (ACPE UAN: 0672-0000-23-034-H01-P, Knowledge-based, 1.0 contact hour, Release: 5/31/2023, Expiration: 5/31/2026)
- Outline approaches for implementation of stewardship initiatives in ambulatory care settings, with a focus on infection-specific interventions and roles in specialty clinics
- Describe effective methods for establishing rapport within the organization as an antimicrobial expert
- Describe effective methods of education for healthcare providers and patients
- Develop strategies for tracking and reporting of outcome measures

Community Pharmacy (ACPE UAN: 0672-0000-23-036-H01-P, Knowledge-based, 0.75 contact hour, Release: 5/31/2023, Expiration: 5/31/2026)
- Identify opportunities for interventions during outpatient encounters that could lead to improved antibiotic utilization.
- Develop disease management programs that incorporate test-to-treat models
- Recommend healthy living interventions that improve baseline health and reduce individuals' risk for acquiring infections
- Identify opportunities to collaborate with health systems and departments of public health to achieve improved antimicrobial utilization

Part 3 – Implementation of Quality Improvement (QI) Stewardship Initiatives

The third component of the certificate training program consists of completing self-study modules available for online viewing and implementing a project at the participant's practice site. All self-study modules must be completed prior to project initiation.

Implementation of Quality Improvement Stewardship Initiatives
(ACPE UAN: 0672-0000-23-037-H01-P, Knowledge-based, 1.75 contact hours, Release: 6/25/2023, Expiration: 6/25/2026)
- Categorize types of study designs most used in quality improvement processes for antimicrobial stewardship interventions
- Outline best practices in regulatory and administrative processes for quality improvement and hypothesis-driven research in antimicrobial stewardship
- List and define common outcomes and process measures used to demonstrate the impact of antimicrobial stewardship interventions
- Identify variables that can influence success of implementation and positive evaluation of antimicrobial stewardship initiatives
- List common descriptive and comparative statistics used in antimicrobial stewardship quality improvement
- Describe strategies to share antimicrobial stewardship data with important stakeholders
- Explain processes for identifying and prioritizing

antimicrobial stewardship quality improvement needs
- Identify potential barriers and solutions to implementation of antimicrobial stewardship quality improvement initiatives

Quality Improvement Component in the Practice Setting (Clinical Skills Component)
(ACPE UAN: 0672-0000-23-041-H01-P, Application-based, 10 contact hours, Release: 6/30/2023, Expiration: 6/30/2026)
- Implement at least one aspect of antimicrobial stewardship within your practice setting
- Construct a documentation plan for an antimicrobial stewardship project
- Identify barriers to implementing components of an antimicrobial stewardship project
- Outline strategies to overcome barriers identified for an antimicrobial stewardship project

The Quality Improvement component of the certificate training program is an activity by which the participant demonstrates individual mastery of information learned in previous parts of the program to implement or modify

an aspect of antimicrobial stewardship at the participant's facility. A QI project may address any facet (e.g. structure, policy, guideline development, or education) of antimicrobial stewardship at the participant's institution. Proof of completion must be submitted to SIDP as instructed in Part 3 of the program. After approval, an online statement of completion will be issued.

Accreditation: **Pharmacist**

The Society of Infectious Diseases Pharmacists (SIDP) is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education.

Certificate Program Number: 0672-23-001-CP
Release date: June 30, 2023; Expiration date: June 30, 2026
This CE activity is approved for 28.0 contact hours (2.8 CEUs) in states that recognize ACPE providers. The participant can elect to complete additional modules at no additional cost and earn up to 32.5 contact hours (3.25 CEUs).

Part 1 is 12 contact hours or 1.2 CEUs of continuing pharmacy education credits. Part 2 will result in 4.25 to 8.75 contact hours of continuing pharmacy education credit (0.425 to 0.875 CEUs). The Part 3 home-study component is 1.75 contact hours or 0.175 CEUs of continuing pharmacy education credits. To receive CE credit for home-study content, participants must view the content, complete an online post-test with a passing score of 70% or greater and an activity evaluation. Statements of completion will be issued online as individual modules are completed. UANs for the individual activity modules are listed above. Proof of completion will be submitted to NABP CPE Monitor. It is anticipated the participant will complete the self-study components within 5 months of registration. *Content and CE hours are subject to change: modules are regularly reviewed and updated to reflect current clinical knowledge.*

A quality improvement project/skills component will be completed at the participant's practice site after completion of the home study components. This portion is worth 10 hours or 1.0 CEUs of continuing pharmacy education credit. Instructions for submission will be provided within Part 3 of the program. After your project submission is approved by SIDPs panel, a final program evaluation must be completed online to receive CE credit. It is anticipated the participant will complete this component within 9 to 11 months of registration.

Participants will have access to the content for one year from the date of purchase.

Per ACPE requirements, CPE credit must be claimed within 60 days of being earned. Participants are responsible for verifying credits were transferred successfully to your NABP eProfile account before the ACPE 60-day deadline. After the 60 day deadline, SIDP will no longer be able to report your credit(s) for activities.

No CE credits will be awarded for other healthcare disciplines.

Antimicrobial Stewardship Certificate of Completion
Upon successful completion of all three components, a Certificate of Achievement will be issued to the participant from The Society of Infectious Diseases Pharmacists. Participants who successfully complete the program will be eligible for a complimentary associate SIDP membership for one year. Please note: Completion of this program does not provide participants with a formal certification in antimicrobial stewardship only verification that you have completed the certificate program training course.

Program Cost
Participant cost is $600 per healthcare professional. This amount includes the self-study sections and the skills component at your practice site. For institutions, healthcare facilities, or groups/associations providing a single payment, the group discounts listed below are available. *Group discounts cannot be combined with other discounts.*
>   6-10 healthcare professionals = 5% discount
>   11-15 healthcare professionals = 10% discount
>   More than 15 healthcare professionals = 15% discount

For trainees (e.g., residents, fellows, and graduate students) the cost is $440 per individual. To receive a discount please send proof of trainee status to SIDP at education@sidp.org.

Low-Mid Income Countries (LMIC) Discount: For healthcare professionals in qualifying countries (please refer to the World Bank List of Low-Mid Income Countries) the cost is $300 per individual for the full program. Some material may not be relevant for the participant's country, however, the overarching concepts presented in modules will be applicable. To receive a discount please send proof of residency in a qualifying country to SIDP at education@sidp.org.

Cancellations received in writing *prior* to accessing any of the program content (send request via e-mail to education@sidp.org) will receive a refund of the amount paid minus a $150 cancellation fee.

Funding
No outside financial support was received for the development of this program.

Hardware/Software Requirement
1. Any standard browser which support html5.
2. Best suited is 1 mbps internet speed; can work on low speed, but rendering may be slow depending on content.
3. Sound Card and Speakers
Contact for Technical support or CE questions: SIDP e-mail: education@sidp.org

Disclaimer
Faculty members are asked to disclose when any unlabeled/investigational use of pharmaceuticals and devices is being discussed. This activity is intended for educational purposes and should not be used as a substitute for care or advice from a professional. The opinions expressed in the educational activity are those of the faculty and do not necessarily represent the views of SIDP. The planners and faculty of this continuing education activity have made all reasonable efforts to ensure the accuracy of the information presented in accordance with the latest available scientific knowledge at the time of publication. Healthcare professionals should verify all information and data with recommendations of other authorities before treating patients or employing any therapies described in this continuing education activity.

Conflict of Interest Disclosure
In accordance with the Standards for Integrity and Independence in Accredited Continuing Education, SIDP asks all individuals involved in the development and presentation of CE activities to disclose all relevant financial relationships with ineligible companies. All relevant financial relationships have been mitigated prior to the CE activity. Financial relationships for faculty that have been disclosed are listed below. SIDP planners, staff and other individuals who are in a position to control the content of this CE activity have no relevant financial relationships with an ineligible company to disclose.

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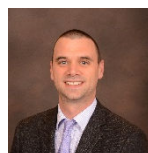
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Modules:
1. Antimicrobial Fundamentals
2. A Primer: Clinical Microbiology and Diagnostic Stewardship
3. Rapid Diagnostic Testing (RDT)
4. Antimicrobial Susceptibility Testing (AST) and Clinical Application
5. Antimicrobial Stewardship Principles and Goals
6. Increasing Influence: Communication Strategies for Antimicrobial Stewards
7. Pitching an Antimicrobial Stewardship Program to the C-Suite
8. Academic Hospitals
9. Community and Critical Access Hospitals
10. Outpatient Parenteral Antimicrobial Therapy (OPAT)
11. Emergency Department and Urgent Care
12. Ambulatory Care
13. Community Pharmacy
14. Implementation of QI Stewardship Initiatives

Antimicrobial Stewardship Certificate Program Registration Form

If you cannot complete payment online, complete this form and mail it along with payment to:
SIDP, P.O. Box 1488, Warrenville, IL 60555

Please print or type: (One form per person)

First Name: _____ Middle Initial: _____ Last Name: _____

Address: _____ ❒ Work ❒ Home

City: _____ State: _____ Zip: _____

Place of Employment: _____

Home Phone: _____ Work Phone: _____

E-mail: _____

Program Fee per Participant: $600

For trainees (e.g., residents, fellows, and graduate students) the cost will be $500 per individual. For institutions or healthcare facilities with payment from the same institution, we provide the following discounts:

> 6-10 healthcare professionals = 5%
> 11-15 healthcare professionals = 10%
> More than 15 healthcare professionals = 15% discount

The self-study material will be accessible upon receipt of your registration fee. Directions to access the self-study materials will be e-mailed upon receipt of the registration form.

Cancellations received in writing _prior_ to accessing any of the program content (send request via e-mail to education@sidp.org) will receive a refund of the amount paid minus a $150 cancellation fee.

Payment Information

❒ Individual Healthcare Professional ($600)

❒ Trainee ($440 - _validation required_)   ❒ LMIC ($300 - _validation required_)

❒ Multiple Pharmacists # _____ _(Provide contact information as requested above for each participant)_

Payment by check (**Make check payable to SIDP**):   Check #: _____   Amount: $_____

For payment by Credit Card, register online at https://sidp.org/Stewardship-Certificate