



# Friday Focus 4 Health

A diverse and collaborative learning experience  
designed to improve patient outcomes



## Patient Safety-C. *Difficile*

*Prevent, Educate, Antibiotic Stewardship*

Fridays | 12:00 - 12:30 pm CT

March 10, 17, 24, 31

One topic. 4 weeks. 30 minutes. YOUR pace.



# Patient Safety: C Difficile Session Review



- **Week 1:** Impact, CDI Prevention Policy, how to build a team for CDI prevention
- **Week 2:** Risk and Detect, Guidance for stool collection, colonized vs infected, diagnostics including lab tests
- **Week 3:** Communicate, Contain, Clean
- **Week 4: (TODAY) - Prevention: Antibiotic Stewardship, Education**
- [MN DOH Safe from CDI Roadmap and Toolkit](#)
- [MN DOH C Difficile Toolkit for LTCFs](#)
- [GPQIN Quality Improvement Process Guide and Tools](#)

# Antibiotic/ Antimicrobial Stewardship (ABS)?

## What is it and why do we care about it?



**ABS refers to programs and activities that promote the appropriate selection and use of antibiotics**

- Activities include:
  - Limit antibiotic use when not needed
  - Minimize the frequency, duration and number of antibiotics prescribed

**ABS is one of the most important way to prevent CDI infections AND:**

- Improve outcomes for pts who really need antibiotics
- Prevent consequences of antibiotic side effects
- Prevent development of AB resistant bacteria and replacement of normal bacteria that cause infections such as C Difficle.

**Antimicrobial Stewardship Video by  
Janis Provinse 6 min. <https://youtu.be/jZgnJaOyo8c>**

# How to start antibiotic stewardship?



## CDC Core Elements of Antibiotic Stewardship

Hospital

Outpatient,  
Clinics

Nursing  
Homes

Resource  
Limited  
Settings



### Antibiotic Stewardship:

The 7 Core  
Elements



Great Plains Quality Innovation Network,  
(GPQIN)

Created by Stephanie Meduna QI Advisor  
Recorded by Jennifer Everson QI Advisor

<https://www.youtube.com/watch?v=q6mFKKGsNEc> 12 min video by Great Plains QIN

# Core Elements Summary

Regardless of toolkit; all settings essentially have similar core elements, checklists and resources to get you started.

## Summary of Core Elements for Antibiotic Stewardship in Nursing Homes



### **Leadership commitment**

Demonstrate support and commitment to safe and appropriate antibiotic use in your facility



### **Accountability**

Identify physician, nursing and pharmacy leads responsible for promoting and overseeing antibiotic stewardship activities in your facility



### **Drug expertise**

Establish access to consultant pharmacists or other individuals with experience or training in antibiotic stewardship for your facility



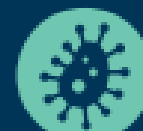
### **Action**

Implement **at least one** policy or practice to improve antibiotic use



### **Tracking**

Monitor **at least one process** measure of antibiotic use and **at least one outcome** from antibiotic use in your facility



### **Reporting**

Provide regular feedback on antibiotic use and resistance to prescribing clinicians, nursing staff and other relevant staff



### **Education**

Provide resources to clinicians, nursing staff, residents and families about antibiotic resistance and opportunities for improving antibiotic use

# C. Difficile & Antibiotic Stewardship Posters, Fact Sheets, Social Media and Web Graphics from the

[CDC CDiff education resources](#)

[CDC Antibiotic Stewardship Education Resources](#)

**CLOSTRIDIODES DIFFICILE** (formerly known as *Clostridium difficile*)

*Clostridioides difficile* (also known as *C. diff*) is a bacterium that causes diarrhea and colitis (an inflammation of the colon). *C. diff* infection can be life-threatening.

**IMPACT**

- C. diff* infection is estimated to cause almost half a million illnesses in the United States each year, and an estimated 29,300 deaths.<sup>1</sup>
- About 1 in 6 patients who get *C. diff* infection will get it again in the subsequent 2–8 weeks.<sup>2</sup>
- One in 11 people over 65 diagnosed with a healthcare-associated *C. diff* infection die within a month.<sup>3</sup>

**RISK**

**HEALTHCARE PROFESSIONALS: BE ANTIBIOTICS AWARE**  
**C. DIFF INFECTION - IS YOUR PATIENT AT RISK?**

Consider your patient's risk of *C. diff* infection before prescribing an antibiotic.

*C. diff* can affect anyone, especially people with the following risk factors:

- Antibiotic exposure
- Extended stay in healthcare settings, such as hospitals and nursing homes
- Previous history of *C. diff* infection
- Serious underlying and immunosuppressing conditions
- Older age

Higher-risk antibiotics that are more likely to predispose your patient to *C. diff* infection include:

- Clindamycin
- Fluoroquinolones (e.g., ciprofloxacin, levofloxacin)
- Third/fourth generation cephalosporins (e.g., cefepime, ceftriaxone, cefixime, cefixime)

**Optimize antibiotic therapy to minimize the risk of *C. diff* infection:**

- Prescribe the most targeted and safe antibiotic.

**High Risk Antibiotics That Are More Likely To Predispose Your Patients To *C. diff* Infection Include:**

- Clindamycin
- Fluoroquinolones (e.g., ciprofloxacin, levofloxacin)
- 3rd and 4th generation cephalosporins (e.g., cefepime, ceftriaxone, cefdinir, cefixime)

**BE ANTIBIOTICS AWARE**  
SMART USE, BEST CARE

**PREVENT *C. diff* by:**

- When people don't wash their hands with soap and water.
- It can also happen when one healthcare facility fails to notify another when it transfers a patient with *C. diff*.
- Wearing gloves and gowns when treating patients with *C. diff*—and remembering that hand sanitizer doesn't kill *C. diff*.
- Cleaning surfaces in rooms where *C. diff* patients are treated with EPA-approved, spore-killing disinfectant (see list K).

**CDC**  
U.S. Department of Health and Human Services  
Centers for Disease Control and Prevention

www.cdc.gov/diff  
www.cdc.gov/antibiotic



# Miscellaneous Education Gems



- Animated video- 13:43 min [Clostridium Difficile Training for Environmental Cleaning Staff - Bing video](#) (2017) Oregon Patient Safety Commission
- [CDC Effective Communication w residents families in wanting antibiotics](#)

# QI Idea to Leave in Action



Review your organization's antibiotic stewardship program

- Use the specific checklist for your setting under the CDC Core Elements of ABS
  - If find, elements missing, revise & update
  - If have all elements; select one or two implementation activities to expand your ABS program
- 
- [CDC Core Elements of Antibiotic Stewardship](#)
  - [GPQIN Quality Improvement Project Guide and Tools](#)
    - [GPQIN PIP template](#) – *next 2 slides will show an example of a QI project using this tool*



# EXAMPLE: PIP in Clinic/ Outpatient Setting – page 1



## Performance Improvement Project (PIP) Guide

Start Date	Review Date(s)	Complete Date	PIP Squad Members
3/20/23			1. Lori- Clinic IP nurse 2. Stephanie – Clinic QI Coordinator 3. Dr. Smith – Medical Director 4. Jane Doe – PharmD (local pharmacist) 5. 6. 7.
<b>Project Leader</b>	Lori – Infection Preventionist		
<b>Key Area for Improvement</b>	Current antibiotic stewardship program at Happy Clinic has not been reviewed or updated since program inception in 2018.		
<b>Goal:</b> Specific Measurable Action-Oriented Realistic Time Bound Inclusive Equitable	Happy Clinic will have an updated antibiotic stewardship program by July 1, 2023		
<b>What is the Root Cause(s) for the problem? Ask ‘Why is this happening?’ 5 times. If you removed the root cause, would this event have been prevented?</b>			
1) Employee turnover - responsibility never got reassigned 2) Not considered an organization priority 3) Staff wasn’t aware that Antibiotic Stewardship Program existed 4) Lack of education – concept never really was promoted 5) Didn’t realize the importance of antibiotic stewardship			
<b>What are potential barriers?</b>			
Buy in from staff members and physician staff. Time issue in having to do one extra thing. “Patients want antibiotics when they come in and don’t feel we have done anything unless we provide the antibiotic”			
<b>Brainstorm possible solutions and start your PDSA [PLAN DO STUDY ACT] Cycle - see page 2</b>			
Need someone responsible for upkeep. Could form an ABS workgroup to keep focus on program. Need to promote ABS concepts. Have posters in waiting rooms. Provide education. Could show short videos in closed circuit tv system in waiting rooms. Involve community in the ABS focus. Need actual antibiotic prescription data for baseline and then monitor Rx rates along the way. Monitor and track antibiotic side effects.			

## Page 2 of the EXAMPLE PIP

Plan	Do			Study and Act	
List the tasks to be done	Responsible Team Member	Start Date	Completion Date	Comments/Lessons Learned	Adopt/Adapt/Abandon
Find current ABS program plan and review	Lori	3/22/23	3/23/23	Not up to date. Doesn't look it had been looked at since program inception 2018.	ADAPT
Review CDC's Core Elements for Outpatient Setting	All TEAM Members	3/21/23	3/30/23	Happy Clinic's plan missing some core elements.	ADAPT
Utilize CDC Core Element Checklist and do audit – report at 4/1 mtg	Lori, Stephanie	3/25/23		Full report given at 4/1/23. Overall, unable to mark off several areas in the checklist in <u>all</u> element areas. Lots of areas for improvement.	
Add missing elements and revise ABS program to reflect current standards	Lori, Stephanie				

Benchmarks/metrics [how will we measure progress?]	Study and Act				
	Baseline Date	First Measurement Date	Second Measurement Date	Final Measurement Date	Comments
Happy Clinic has an updated antibiotic stewardship program and process identified to ensure it is updated, reviewed and followed	ABS program plan exists  Developed Jan 2018.	First Draft of updated ABS program  7/1/23	2 <sup>nd</sup> , 3 <sup>rd</sup> Drafts if need be	ABS program updated.	*Once ABS program updated, will establish next goals and implementation steps for example: increase focus on patient education materials.  *Compiling antibiotic prescription data.

This material was prepared by Great Plains Quality Innovation Network – Quality Improvement Organization, under contract with the Centers for Medicare & Medicaid

# Office Hours

## Questions & Open Discussion



# April Friday Focus 4 Health Series



**American Heart Association**

**Life's Essential 8™**

Tools for Optimal Patient/Resident Health

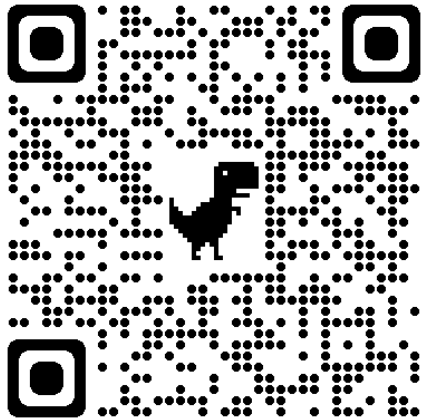
**Fridays in April | 12:30 – 1:00 pm CT**

Visit our Friday Focus 4 Health Page  
to Register!

[greatplainsqin.org/friday-focus-4-health-series/](https://greatplainsqin.org/friday-focus-4-health-series/)



# Thank You For Joining | Share Your Feedback



Scan the QR code  
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Access the link (via chat) to  
complete the evaluation

Join the conversation! Join our Community Coalition Listserv:  
<https://gaggle.email/join/communitycoalition@groups.greatplainsqin.org>

