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Great Plains



Quality Innovation Network

Antibiotic Stewardship: The 7 Core Elements

Great Plains Quality Innovation Network (GPQIN)

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Objectives

- Name the Core Elements of an Antibiotic Stewardship Program.
- Name important goals of an Antibiotic Stewardship Program.
- Describe the team members to include in your program.
- Discuss potential stewardship interventions in the long-term care setting.

Introduction

- What is Antibiotic Stewardship?
- What is the purpose of an Antibiotic Stewardship Program?
- Why is Antibiotic Stewardship so important?
- What are the 7 core elements of an Antibiotic Stewardship Program?

[CDC's Core Elements of Antibiotic Stewardship in nursing homes](#)

Overuse and Consequences

- Up to 75% of antibiotics prescribed in a nursing home are considered inappropriate or unnecessary.
- Antibiotics cause consequences and side effects.
 - Residents are at risk of allergic reactions, kidney and liver damage, loss of appetite, and diarrhea.
 - The diarrhea may in fact be *Clostridioides Difficile*
 - Increased risk of colonization or an infection with an antibiotic-resistant bacteria.

“Core Elements of Antibiotic Stewardship for Nursing Homes.” *Centers for Disease Control and Prevention*, Centers for Disease Control and Prevention, 20 Aug. 2021, <https://www.cdc.gov/antibiotic-use/core-elements/nursing-homes.html>.

Core Elements for Antibiotic Stewardship in Nursing Homes

1. Leadership Commitment
2. Accountability
3. Drug Expertise
4. Action
5. Tracking
6. Reporting
7. Education



[The Core Elements of Antibiotic Stewardship for Nursing Homes: checklist](#)

1. Leadership Commitment

- Getting the buy in....
- Include Duties
- Communicate
- Create a Culture



2. Accountability

- The individuals who are accountable for the program need to be aware they have the backing of the facility leadership.
- Who needs to be empowered?
 - The Medical Director
 - The Director of Nursing
 - The Consulting Pharmacist
 - The Infection Preventionist

[McGeers Criteria](#)

[Loeb's Minimum Criteria](#)

3. Drug Expertise

- Consulting pharmacist
 - [Making a difference in Infectious Diseases](#)
 - [Society for Infectious Diseases Pharmacists antibiotic stewardship certificate program](#)
- Local hospital Infection Preventionist
- Consult disease consultants

4. Action

- The use of new or improved policies.
- Change practices to address antibiotic use.
 - Focus on detailed assessments and proper communication with the physician.
 - Implement an antibiotic review process
- Use of consulting pharmacist
- Use of inappropriate antibiotics

5. Tracking

- Tracking and reporting antibiotic use and outcomes
- Process Measures
- Antibiotic use Measures
- Antibiotic Outcome Measures

6. Reporting

- Reporting the information
- Who should be reported to



7. Education

- Provide education:
 - Clinicians
 - Nursing staff
 - Residents
 - Families



Conclusion

- 7 core elements
- Working as a team



Resources

- “Core Elements of Antibiotic Stewardship for Nursing Homes.” *Centers for Disease Control and Prevention*, Centers for Disease Control and Prevention, 20 Aug. 2021

www.cdc.gov/antibiotic-use/core-elements/nursing-homes.html

- “Developing an Antibiotic Stewardship Program.” *AHRQ*, June 2021

www.ahrq.gov/antibiotic-use/long-term-care/improve/program.html



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