ANTIMICROBIAL STEWARDSHIP IN NURSING HOMES

It's our turn now

Grow Good Knowledge Not Bad Bugs

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DISCLOSURE

I have no actual or potential conflict of interest in relation to this program or presentation.

LEARNING OBJECTIVES

- ② Evaluate current state of Antimicrobial Stewardship
 preparedness in post acute/long term care (PALTC)
- Review upcoming regulatory changes in PALTC related to Antimicrobial Stewardship
- ② Describe CDC's core elements of antibiotic stewardship for nursing homes
- Discuss practical approaches to starting a successful and longlasting Antimicrobial Stewardship Program in PALTC

Pretest Question 1

Which of the following is not a core element of antibiotic stewardship in nursing homes?

- A. Leadership Commitment
- B. Accountability
- C. Obtaining cultures upon admission
- D. Drug Expertise

Pretest Question 2

Which of the following exemplifies a good antibiotic stewardship program?

- A. Policies that support optimal antibiotic use
- B. Broad interventions (antibiograms and antibiotic time-outs)
- C. Positive cultures must be treated immediately
- D. Infection and syndrome specific interventions (asymptomatic bacteriuria – ASB)

DEFINITION

Antibiotic stewardship refers to a set of commitments and activities designed to "optimize the treatment of infections while reducing the adverse events associated with antibiotic use."

DATA POINTS

- 70% of NH residents receive one or more courses of antibiotics in a year
- 40%-75% of antibiotics prescribed in NH may be unnecessary or inappropriate
- Cost of antibiotic use in NHs is \$ 38 to 137 million per year
- Residents with higher antibiotic use are at 24 % higher risk of antibiotic related harm
- 20 % of providers prescribe 80 % of antibiotics
- 40-75% of antibiotics in NH are prescribed incorrectly
- 50 % of antibiotics in NH are prescribed for longer duration than necessary



NATIONAL STRATEGY FOR COMBATING ANTIBIOTIC-RESISTANT BACTERIA

Vision: The United States will work domestically and internationally to prevent, detect, and control illness and death related to infections caused by antibiotic-resistant bacteria by implementing measures to mitigate the emergence and spread of antibiotic resistance and ensuring the continued availability of therapeutics for the treatment of bacterial infections.

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Part II

Department of Health and Human Services

Centers for Medicare & Medicaid Services

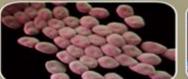
42 CFR Parts 405, 431, 447, et al.

Medicare and Medicaid Programs; Reform of Requirements for Long-Term Care Facilities; Proposed Rule











National Center for Emerging and Zoonotic Infectious Diseases
Division of Healthcare Quality Promotion





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



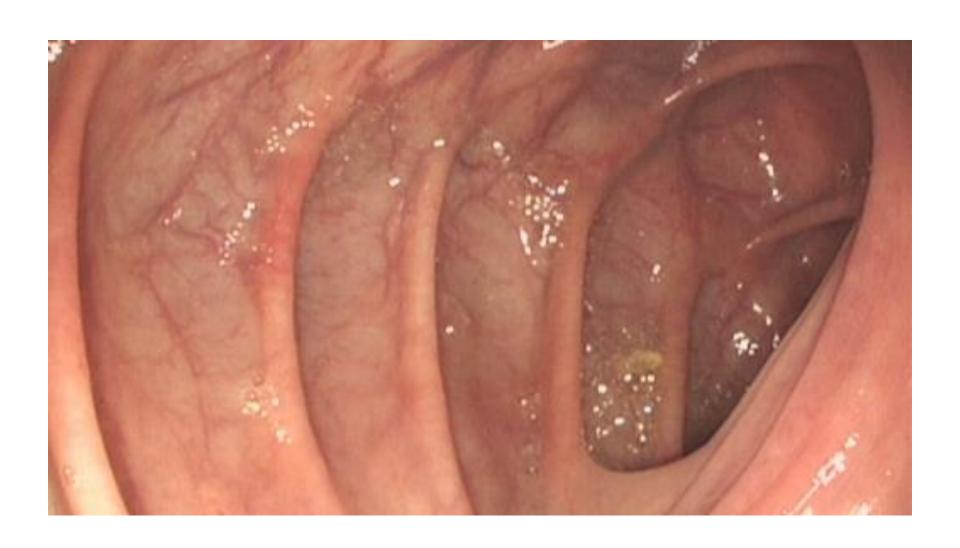
Education

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

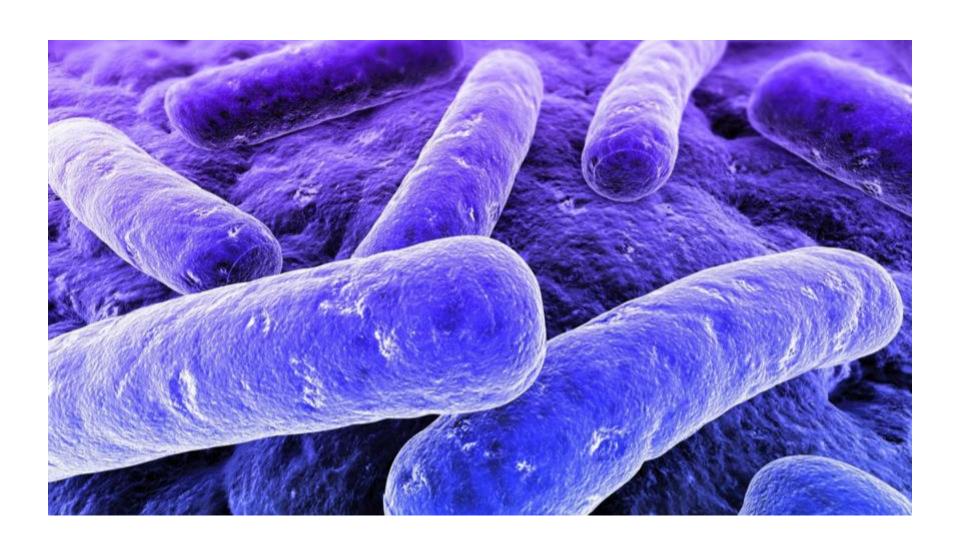
Leadership Commitment

- Written statements of Leadership support
- Define Duties of leaders and champions
- Notify and communicate
- Create and promote a culture

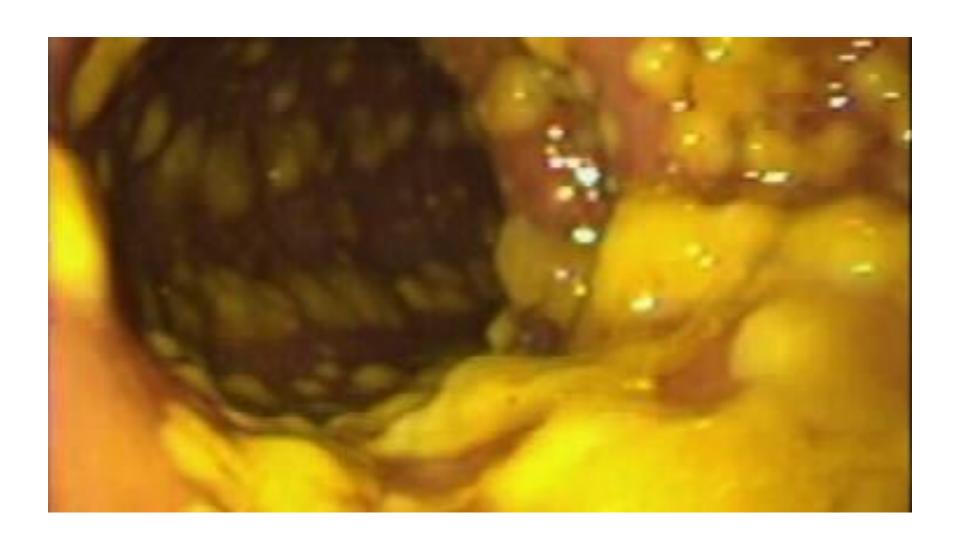
Normal Colon



C. Difficile

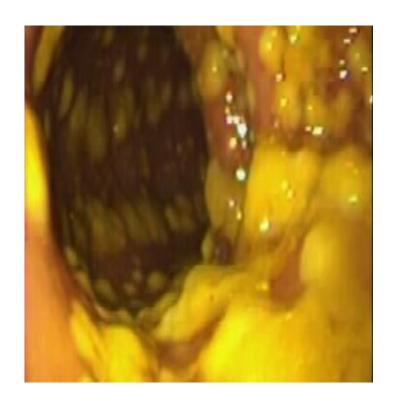


C. Diff Colitis



Side by Side





Accountability

- The medical director
- The director of nursing
- The pharmacist



- The Infection prevention program coordinator
- The laboratory
- State and local health departments

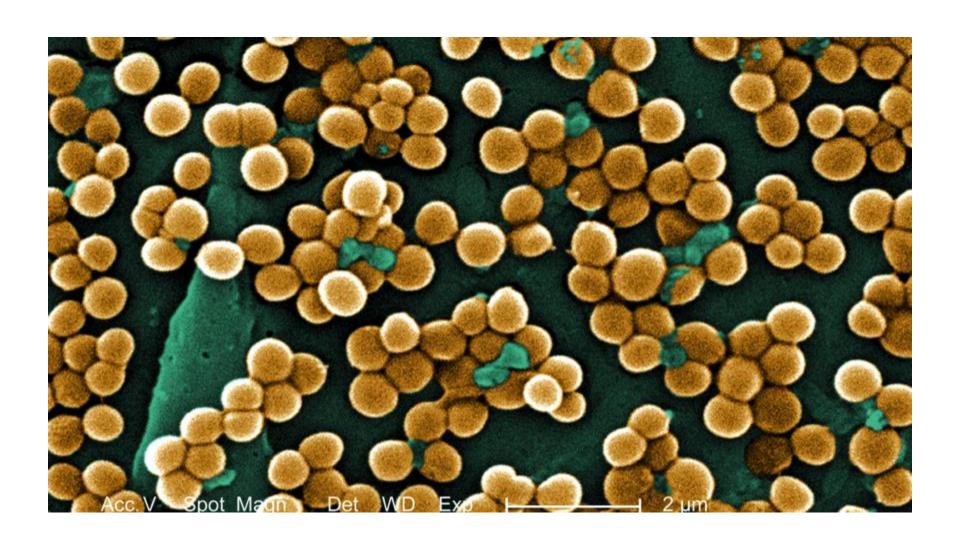
Drug Expertise

- Work with consultant pharmacists with additional training
- Network with area hospital with similar AMS philosophy and engage with Infection prevention personnel
- Develop relationships with infectious disease consultants

Policy and Practice Change

- Policies that support optimal antibiotic use
- Broad interventions (antibiograms and antibiotic time-outs)
- Pharmacy interventions (review of labs, cultures etc.)
- Infection and syndrome specific interventions (asymptomatic bacteriuria, ASB)

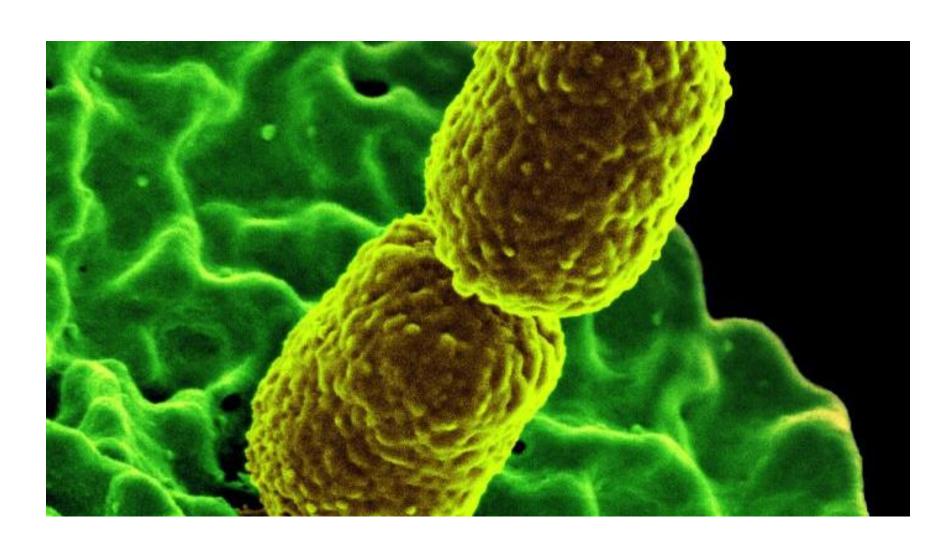
Picture Quiz # 1



Tracking and Reporting

- Tracking how and why antibiotics are prescribed (process measure)
- Tracking how often and how many antibiotics are prescribed (antibiotic use measure)
- Tracking the adverse outcomes and costs from antibiotics (outcome measure)

Picture Quiz # 2



Education

WHO

Physicians, NPPs, Nursing, residents and families

HOW

Flyers, Newsletters, Emails/listserves and Inperson sessions

....FEEDBACK goes a long way

CONCLUSION

- AMS core elements are similar for hospitals and nursing homes
- NHs should start with 1 or 2 activities and build on success
- Celebrate your achievements and recognize the staff

Post-test Question 1

Which of the following is not a core element of antibiotic stewardship in nursing homes?

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Post-test Question 2

Which of the following exemplifies a good antibiotic stewardship program?

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