

Antimicrobial Stewardship in a Community Hospital: Utilizing Time Out Calls

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Financial Disclosures

The author of this presentation does not have anything to disclose concerning possible financial or personal relationships with commercial entities that may have a direct or indirect interest in the subject matter of this presentation

Objectives

- Review the goals and core elements of Antimicrobial Stewardship
- Describe the use of a Time Out Call strategy to facilitate Antimicrobial Stewardship at a community hospital

Antimicrobial Stewardship

- Antimicrobial stewardship combines systematic measurement and coordinated interventions to promote the judicious use of antimicrobial agents
- The primary goal is to optimize clinical outcomes while minimizing unintended consequences of antimicrobial use
- The Joint Commission addressed antimicrobial stewardship for hospitals in Medication Management standard MM.09.01.01 which went into effect January 1, 2017

CDC Core Elements of Hospital Antimicrobial Stewardship Programs

- Leadership Commitment
- Accountability
- Drug Expertise
- Action
- Tracking
- Reporting
- Education



Antibiotic Time Out

- Strategy to prompt clinicians to re-evaluate antibiotic appropriateness including the need for de-escalation and discontinuation
- Antibiotic time out at 48–72 hours is considered a critical component of antimicrobial stewardship programs intended to improve optimal antibiotic use

Mount Sinai Brooklyn (MSB)

- Mount Sinai Brooklyn is a 212-bed acute-care community hospital located in Brooklyn, NY
- Part of the Mount Sinai Health System, along with 7 other hospitals
- Services provided include Cardiology, Infectious Disease, Gastroenterology, Nephrology, General Surgery, Orthopedic Surgery and Emergency Medicine
- Patient population is primarily adult and geriatric



Antibiotic Stewardship (ASP) at MSB

- The Antimicrobial Stewardship Committee created in October 2015, was responsible for the initiation and monitoring of the Antimicrobial Stewardship Program.
- The main goals are to promote appropriate use of antimicrobials, reduce the development of antimicrobial resistance and minimize antibiotic-associated adverse events

ASP Multidisciplinary Team



ASP Interventions

- Restrictions of specific antimicrobial agents
- Retrospective audit and feedback
- Intravenous to oral antibiotic policy
- Seven day stop order for all antibiotics
- Dose adjustment and management of drug-drug interactions by pharmacists
- 72-hour Time Out Call for specific broad spectrum antimicrobial agents

72-Hour Time Out Call

- Initiated in April 2016 as an integral part of the Antimicrobial Stewardship Program
- Antibiotics selected for review were cefepime, imipenem/cilastatin and vancomycin
- Pharmacists review the regimens on the third day of therapy and call the physician with recommendations regarding de-escalation or discontinuation of therapy

OUR COMMITMENT TO APPROPRIATE ANTIBIOTIC USE

As part of our commitment to the health and well-being of our patients, this practice is dedicated to prescribing antibiotics only when they are needed, and we will avoid giving antibiotics when they may do more harm than good. If an antibiotic is not needed, we will explain this to you and will offer an appropriate treatment plan.

Antibiotic stewardship ensures that every patient is given the best care for their specific condition and gets an antibiotic only when necessary. When needed, patients should get:



the right **antibiotic**,



at the right **dose**,



for the right **duration**.

Up to
50%

of all antibiotics
prescribed are not
needed at all or
are not prescribed
appropriately

Each year in
the United States,

at least
2 million

people become infected
with bacteria that are
resistant to antibiotics

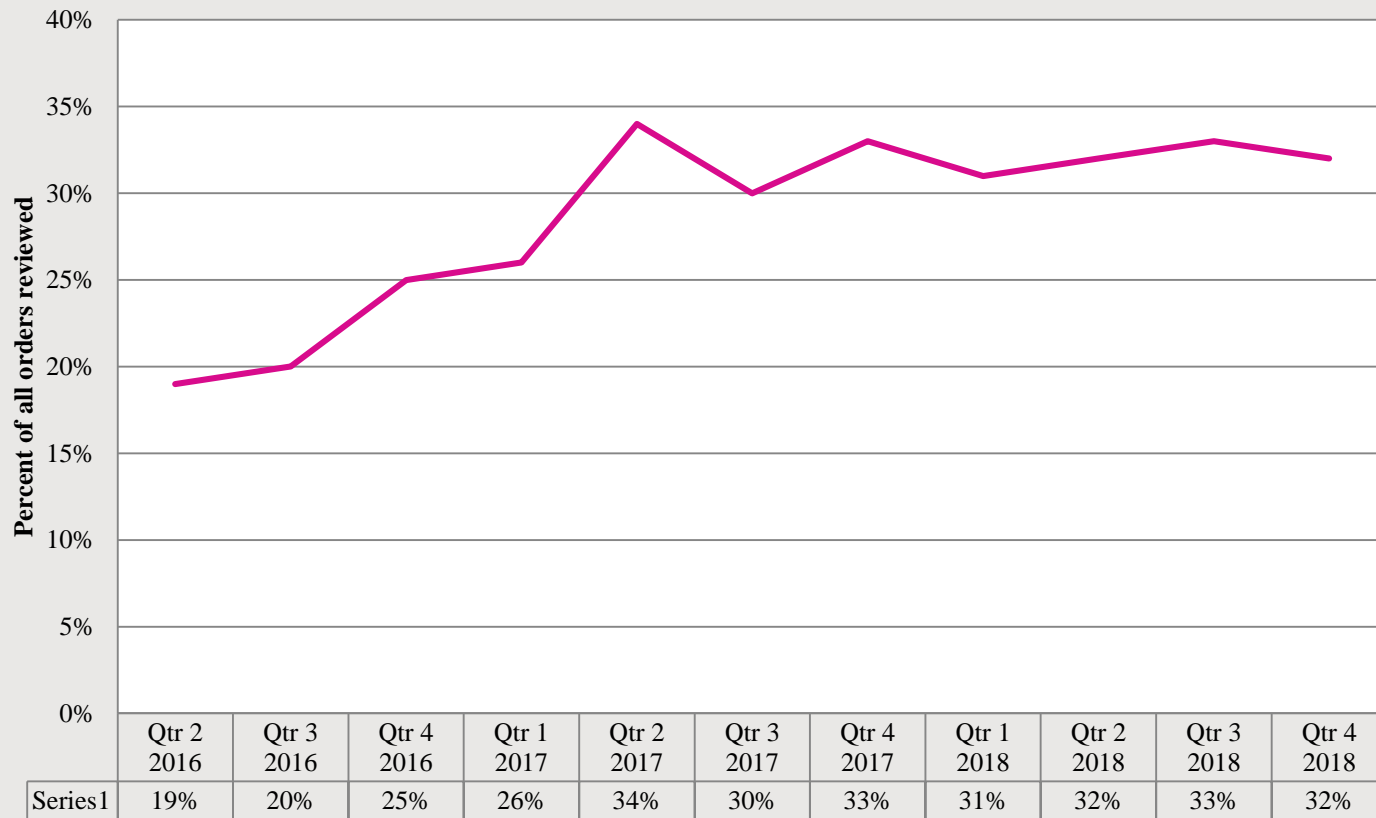
At least
23,000

people die as a
direct result of
these infections

**This practice promotes appropriate antibiotic use
because it leads to better patient care**

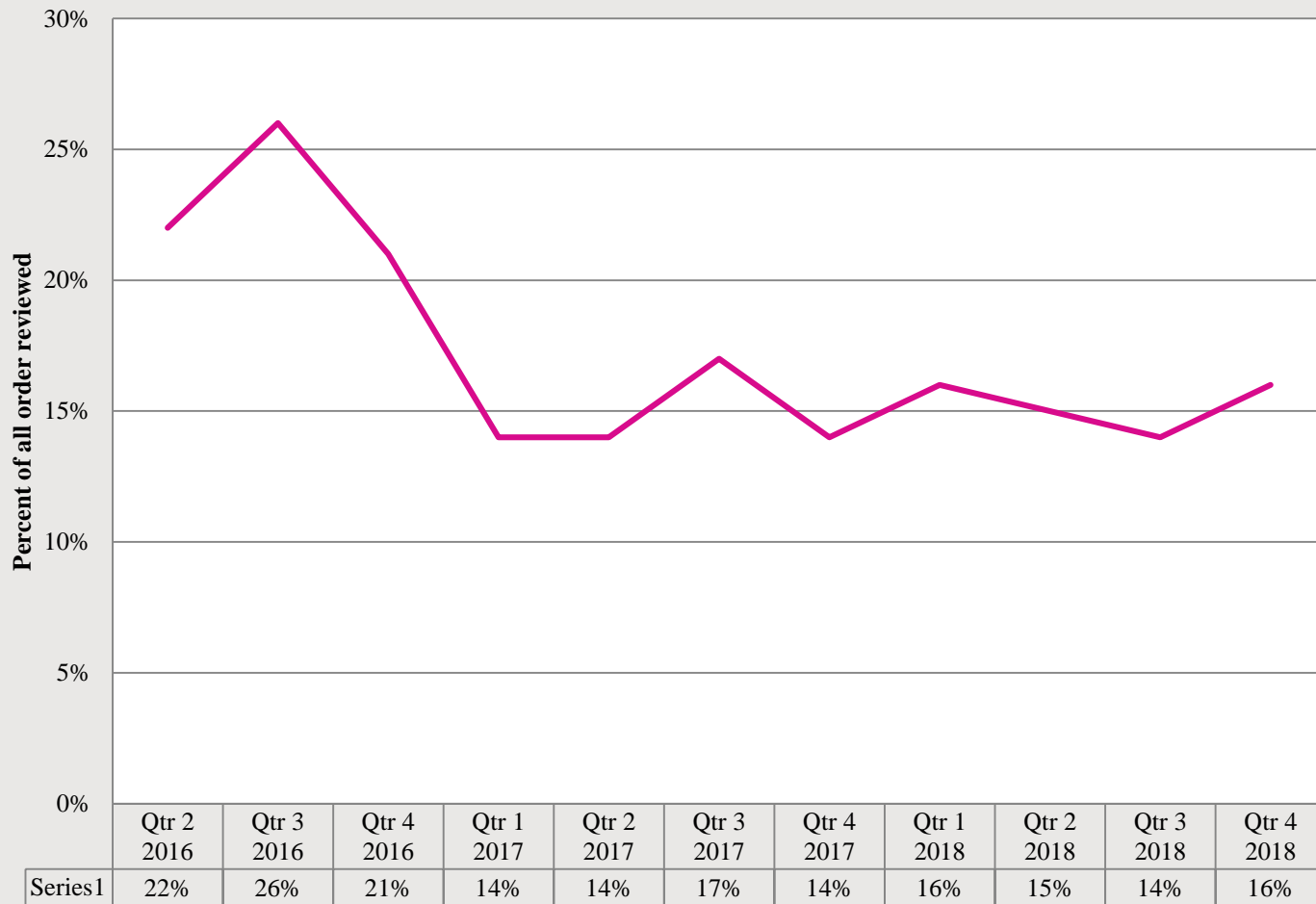
Time Out Call Review

Orders Discontinued by Day 4



Time Out Call Review

Orders Continued Past Day 7



Effective Strategies

- Multi-disciplinary approach
- Leadership support
- Infectious Disease physician engagement
- Continuous feedback and re-evaluation



Barriers

- Limited dedicated staff
- Limited resources for data analysis
- Limited interoperability between software systems



Post Assessment Question

Which antimicrobial stewardship intervention provides the greatest opportunity to impact duration of antibiotic therapy?

- a. Preauthorization or restricted formulary
- b. Prospective audit and feedback
- c. Didactic education
- d. Facility specific clinical practice guidelines

Thank you!



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