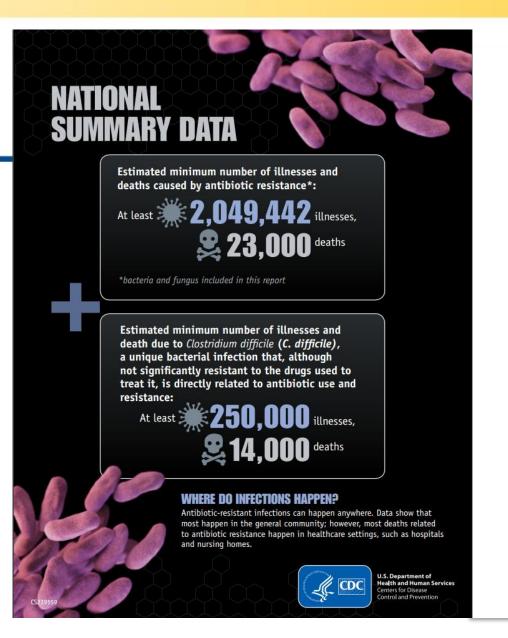
Old Habits Die Hard: Reining in Antibiotic Use in Older Adults

Morgan Katz, MD MHS
Assistant Professor of Infectious Disease









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.

September 2014



JOHNS HOPKINS

May 11, 2018

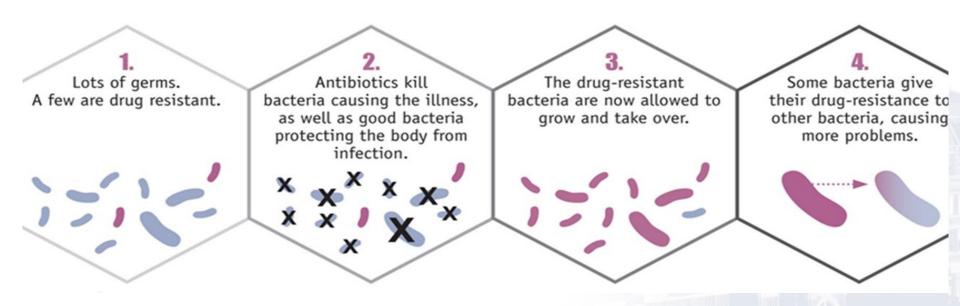
Antibiotics are vastly over-prescribed to older adults



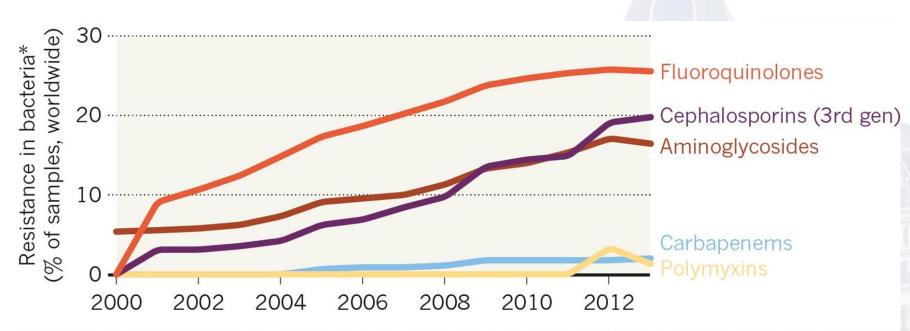
JOHNS HOPKINS

May 11, 2018 3

Antibiotic Exposure Leads to Resistance and Alters the Microbiome



We are Rapidly Losing Antibiotic Options



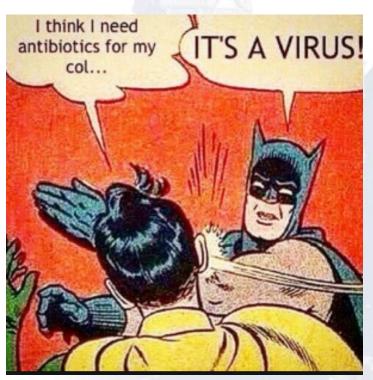
*Enterobacteriae, including Escherichia coli, Klebsellia pneumonia, Enterobacter and Salmonella. Source: CDDEP ResistanceMap/IMS MIDAS



What is Antibiotic Stewardship?

Appropriate use of antibiotics

- Right drug
- Right dose
- Right indication
- Right duration





ANTIBIOTIC GUARDIAN



Technical problems and solutions

Computer shuts down→ Call tech support

Water leaking in a house > Call a plumber

Assign the problem to an expert, and get out of the expert's way

Inappropriate antibiotic prescribing→ NOT AN EASY FIX

Vague Belief that you are clinical Staff preventing sepsis symptoms **Turnover** Unclear guidelines Off-site **Inappropriate Antibiotic** prescribers **Prescribing** Fear of litigation No time for education **Family Pressure** No support from Poor executives communication Limited diagnostic resources



"The most common cause of failure in leadership is produced by treating adaptive challenges as if they were technical problems."

> -Ron Heifetz The Practice of Adaptive Leadership





http://55andfakingnormal.com/2017/07/17/breaking-reframe-aging/

Reframe the Landscape.



Patient Safety Becomes a Priority

2006

2011

2002

2001

2000

DoD implements a patient safety program

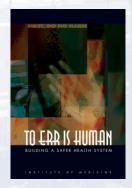
To Err is Human published

TeamSTEPPS program released

program developed and released

CUSP

Joint Commission established its National Patient Safety Goals (NPSGs) program







Hypothesis: Merging patient safety methodology with technical antibiotic stewardship tasks will promote behavior change and enhance antibiotic stewardship methods across the healthcare spectrum.



National AHRQ Safety Program for improving antibiotic use

Spans the healthcare spectrum

- 250-500 Acute Care Sites
 - December 2017 November 2018
- 250-500 Long-Term Care Sites
 - December 2018 November 2019
- 250-500 Ambulatory Care Sites
 - December 2019 November 2020





WE COMMIT TO ONLY PRESCRIBING ANTIBIOTICS WHEN THEY WILL HELP YOU

Antibiotic are powerful medicines. They should only be used when bacteria make someone sick.

Taking antibiotics when you don't need them will NOT make you better. You will still feel sick, and the antibiotic may give you a skin rash, diarrhea, or a yeast infection.

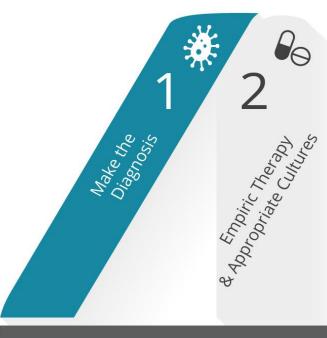
How can you help?

Please tell your healthcare team about the symptoms you or your loved one is experiencing. Let them use their knowledge and experience to decide about tests and medications.

Your health is important to us. As your health care providers, we promise to provide the best possible treatment for your condition. If an antibiotic would do more harm than good, we will explain this and may offer other treatments that are better for you or your loved one.

Sincerely,





Narrow or Stop
Therapy





Expected Outcomes



- Improve safety culture
- Enhance teamwork and communication
- Reduce unnecessary antibiotic use
- Improve antibiotic decision-making
- Reduce Clostridium difficile infection rates
- Improve compliance with new government mandates

Thank you

- Sara Cosgrove
- Pranita Tamma
- Robin Jump
- Melissa Miller
- Meghan Walrath
- Mayo Levering
- Kathleen Speck
- TEP expert panel
- Jonathan Zenilman



