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2019 NATIONAL C. DIFF SUMMIT & LOBBY DAY

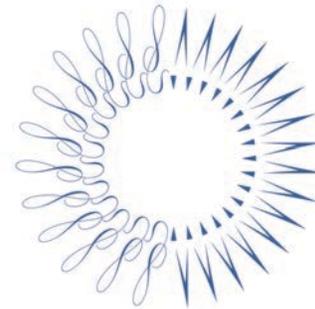
Priorities for Superbugs in 2019

Kathy Talkington, Director, Antibiotic Resistance Project



Who is Pew?

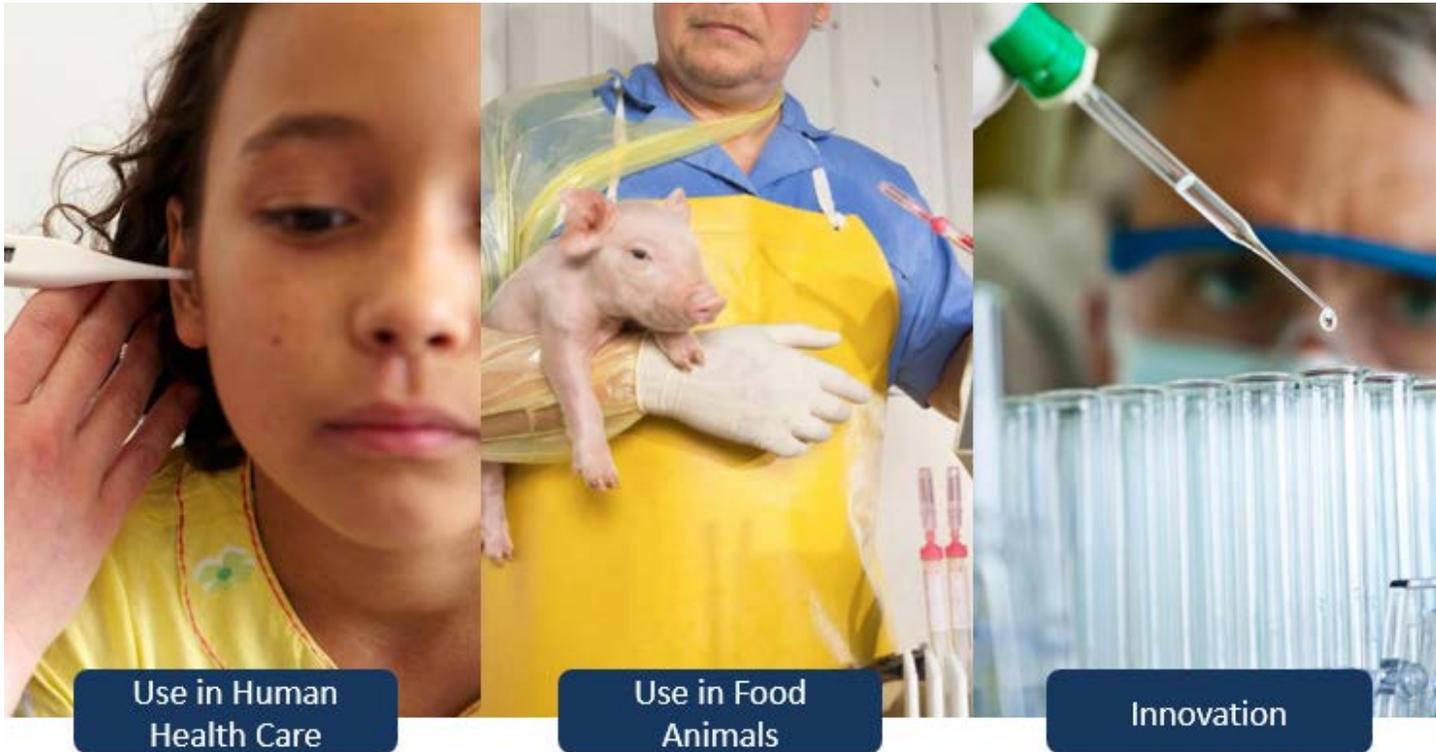
- Pew is an independent nonprofit, nonpartisan research and policy organization
- Tools:
 - Research
 - Partnerships
 - Technical assistance
 - Advocacy



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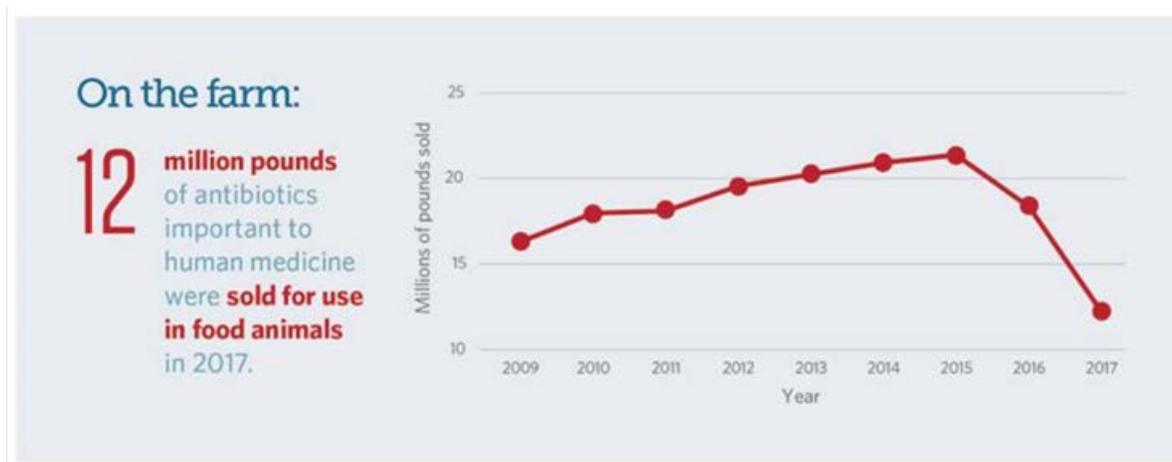


Antibiotic Resistance: A Multifaceted Response



Progress in 2018

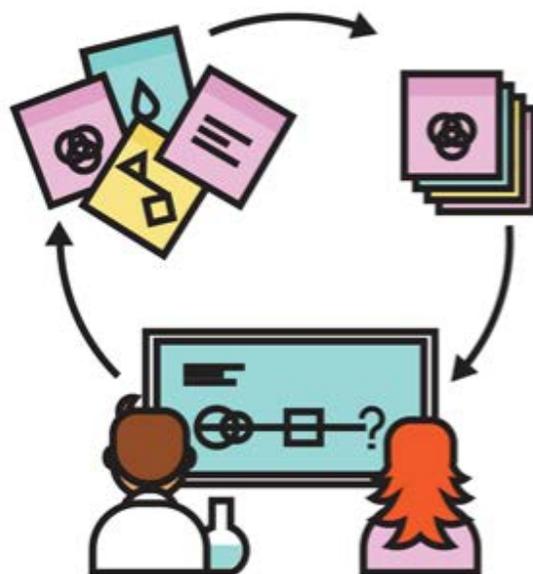
**33% drop in sales of antibiotics for use in animals in 2017
(most recent FDA data) 14% decline in 2016.**



Progress in 2018

SPARK Can Advance Antibiotic Innovation

Interactive, publicly available database could help scientists tackle key research priorities



Antibiotic discovery findings are currently scattered across the academic literature or not published at all, making it difficult for scientists to build upon previous research.

SPARK collates and curates high-quality discovery data from multiple sources in a central online location.

SPARK's easy-to-use software enables scientists from around the world—across sectors and disciplines—to collaborate on and generate new ideas for finding urgently needed antibiotics.



PRIORITIES FOR 2019



Antibiotic Stewardship in Health Care Facilities Priorities - Inpatient

- Effective stewardship programs in all health care settings
 - Inpatient hospitals – CMS Conditions of Participation
 - Continuous improvement/refinement of the existing stewardship requirements
 - Enforcement of Long-Term Care Conditions of Participation for stewardship
 - Require reporting of antibiotic use and resistance data - NHSN





Antibiotic Stewardship In Health Care Facilities Priorities - Outpatient

- The majority of antibiotics in the U.S. are prescribed in outpatient settings. At least 30% of these antibiotics are unnecessary
- These settings include – doctors' offices, emergency rooms, retail health clinics, and urgent care centers.
- There are fewer policy levers for these settings – need to be creative in finding what mechanisms will drive uptake of stewardship.





Antibiotic Stewardship in Animal Agriculture Priorities

- Implement FDA 5-Year Plan on Antibiotics on an expedited timeline
- All antibiotics should be brought under veterinary oversight (injectables)
- Antibiotic labels for animal agriculture should meet judicious use principals – our research shows that 1 out of every 3 labels does not meet this standard.
- Understanding how antibiotics are used on the farm, and for what purposes, is vitally important to assessing stewardship practices and evaluating the impact of policies to reduce unnecessary use of antibiotics.



There are only **42 antibiotics**
in clinical development.*



* Total number of antibiotics in phases 1-3 do not add up to 42 because three drugs have completed phase 3 and their new drug applications are currently under consideration by the Food and Drug Administration.



Only 11 antibiotics in
development have the
potential to treat WHO's
critical threat pathogens.



Finding New Antibiotics - Priorities

- Create an environment that stimulates antibiotic development
- Educate policymakers about the problem and why this situation is unique
- Pull Incentives
- Continued support of push incentives
 - CARB-X, NIH, BARDA



Summary

- Some progress has been made
 - Improvements in stewardship uptake
 - Reduction in sales of antibiotics in animal agriculture
- More to be done – Priorities for 2019
 - High quality stewardship in all health care settings
 - Incentives for improvements in outpatient settings
 - Rapid implementation of FDA 5-year plan- labels, data, veterinary oversight
 - Incentives for the continuous development of new antibiotics

Thank you