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# National Action Plan for Combating Antibiotic-Resistant Bacteria 2020-2025

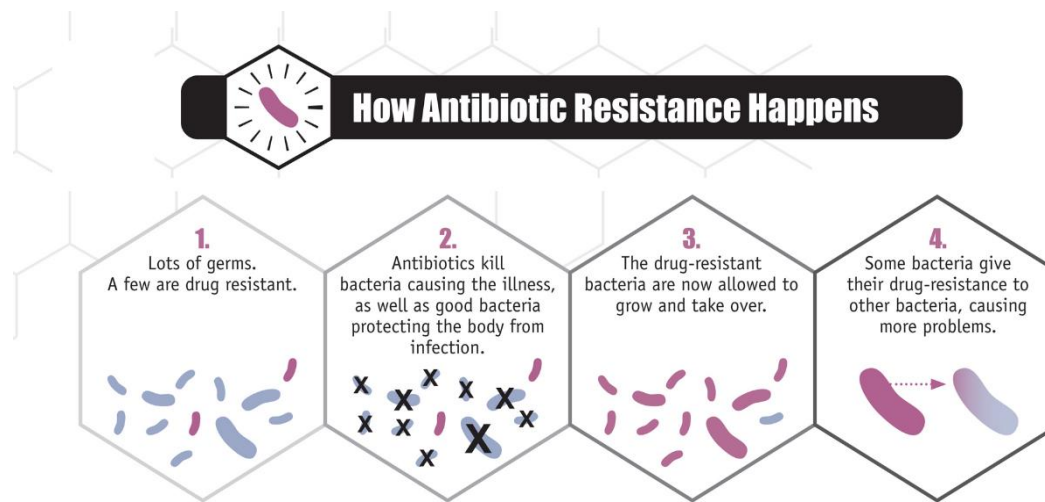
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U.S. Department of Health & Human Services



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# The threat of antibiotic resistance



We are losing the ability to treat and prevent infections.

- More than 2.8m illnesses in the U.S. each year
- More than 35,000 deaths in the U. S. each year
- More than \$4.8b in healthcare costs for just a subset of resistant infections in the U.S. in 2017

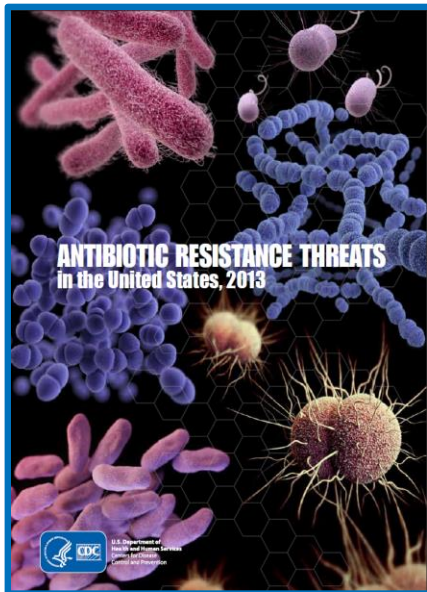


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# The U.S. Government response

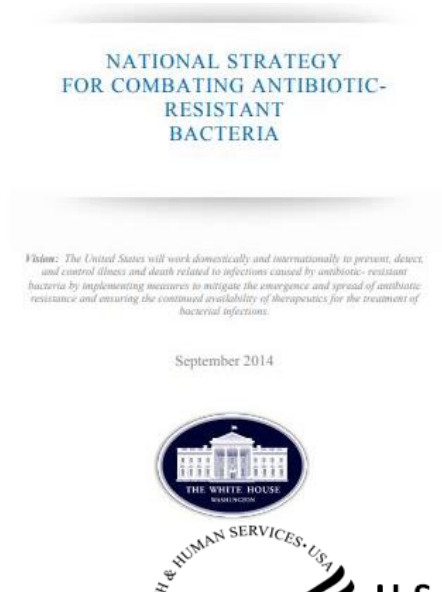
2013

CDC releases first  
*Antibiotic Resistance  
Threats Report*



2014

National Strategy  
Task Force and  
PACCARB established



2015

First National Action  
Plan launched



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# National Strategy for CARB

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Goal 1: Slow the Emergence of Resistant Bacteria and Prevent the Spread of Resistant Infections



Goal 2: Strengthen National One Health Surveillance Efforts to Combat Resistance



Goal 3: Advance Development and Use of Rapid and Innovative Diagnostic Tests for Identification and Characterization of Resistant Bacteria



Goal 4: Accelerate Basic and Applied Research and Development for New Antibiotics, Other Therapeutics, and Vaccines



Goal 5: Improve International Collaboration and Capacities for Antibiotic-resistance Prevention, Surveillance, Control and Antibiotic Research and Development.



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# The Federal CARB Task Force



OASH



Office of Global Affairs

Indian Health Service

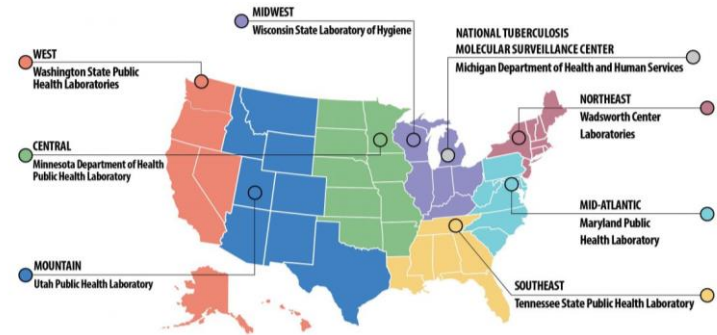


ASPE  
Office of the Assistant Secretary  
for Planning and Evaluation



# Since 2015...

- New national Antibiotic Resistance Laboratory Network
- Strategic initiative to support antibiotic stewardship in veterinary settings
- New programs to improve antibiotic use across healthcare settings
- Biopharmaceutical accelerator, CARB-X
- Supported the development and approval of new diagnostic and treatment options
- Pursued alternatives to antibiotics in agriculture
- Obtained hundreds of commitments to global action from a broad range of sectors and stakeholders



Source: CDC



#### NIFA SUPPORTS BASIC AND APPLIED RESEARCH, EDUCATION, AND EXTENSION PROJECTS THAT:

- Determine the attributable risks caused by antimicrobial use in agriculture
- Create new and improved animal disease vaccines and diagnostic tests
- Identify strategies for controlling and mitigating the emergence and spread of AMR
- Explore alternatives to antibiotics

Source: USDA

## CARB-X

Combating Antibiotic Resistant Bacteria



U.S. Secretary of Health and Human Services Alex Azar speaking at the 2018 AMR Challenge. Source: CDC

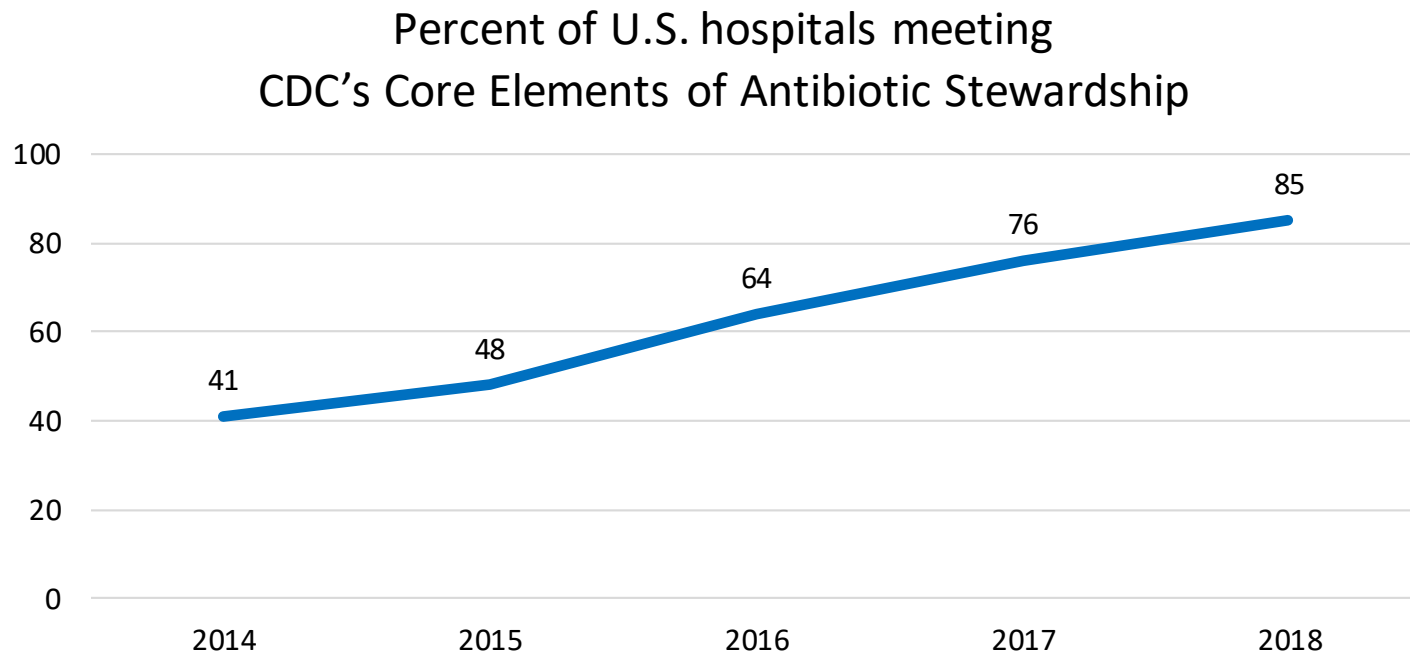


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# Progress...

From 2012 to 2017:

- U.S. deaths from resistant infections fell by 18 percent
- U.S. deaths from resistant infections *in hospitals* fell by 30 percent



# Progress... but ongoing need

- Still too many resistant infections and too many deaths
- New resistant pathogens emerge – e.g., *Candida auris*
- Some resistant infections are increasing, including community-acquired bacterial infections
- Ongoing challenges with developing new antibiotic products



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# CARB National Action Plan 2020-2025

Starting in Fall 2018, the CARB Task Force:

- Enlisted 125 federal experts on five “goal teams”, crossing the One Health spectrum
- Conducted a comprehensive review of prior efforts and anticipated future challenges and opportunities
- Drew from public input provided by the PACCARB



Source: PACCARB report on priorities and recommendations



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# CARB National Action Plan 2020-2025

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Presents coordinated, strategic actions to change the trajectory of antibiotic resistance in the next five years

Maintains the original five goals, adds new objectives and targets

- Some targets reflect multiple agencies' activities
- Describes potential challenges to implementation
- Updated measurement and reporting strategy



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# CARB National Action Plan 2020-2025

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The U.S. Government is committed to continuing the fight against antibiotic resistance.

Please stay tuned for:

- The new Plan to be published in early October
- Reports on progress annually thereafter
- Final/Year 5 report under the original Plan
- Ongoing updates from CARB agencies



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