FY 16 AR Solutions Initiative

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CDC’s Antibiotic Resistance Solutions Initiative

$264M: A Comprehensive Response

The FY 2016 Budget requests more than $264 million to support:

- Comprehensive Tracking
- Rapid Detection
- Faster Outbreak Response
- Insights for Research Innovation
- Better Patient Care
- Improved Prescribing

Supports implementation of CDC’s Activities under the National Strategy and National Action Plan
PCAST Rec. #2: Effective Surveillance & Response for Antibiotic Resistance

- Strengthen state and local public health infrastructure for surveillance and response
  - Enhanced state and local programs for detection of AR, outbreak response, and aggressive prevention activities across healthcare and community settings, including enhanced stewardship programs
- Address community AR threats
- Establish national capability for pathogen surveillance based on genome analysis
  - National laboratory network for pathogen surveillance
  - Reference collection of genome sequences
  - Surveillance in diverse settings through CDC’s EIP and NARMS

PCAST Report to the President on Combating Antibiotic Resistance, September 2014
Stop spread; Protect People

*Act in every state*

- Establish State AR Prevention Programs
- Identify new ways to limit spread of antibiotic resistant infections related to food-producing animals (i.e. Salmonella) using the National Antimicrobial Resistance Monitoring System (NARMS)
- Better monitor treatment of multidrug-resistant gonorrhea (GC) and support rapid response to reduce spread of multidrug-resistant gonorrhea (GC) and better treatment of GC
- Support development of next generation rapid susceptibility tests for drug-resistant pathogens
Track Superbugs; Measure Impact

Accelerate outbreak detection and innovation

- **New Detect Network of AR Regional Labs** to improve response to outbreaks of urgent, serious, or concerning threats; know faster which antibiotics work; and use cutting edge methods to track and get ahead of spread.

- **New AR Isolate Bank** to provide a complete collection of current resistant threats; help keep pace with mutations; and provide information for FDA-approval of products and for companies/researchers’ new tests and antibiotics.

- **Measure impact of antibiotics on human microbiome** to learn if a healthy microbiome protects people and to learn if antibiotics given to infants and elderly lead to health problems or higher risk of drug-resistant infection.

- **Double number of CDC’s Emerging Infections Program (EIP) sites** to expand tracking to urgent and serious threats; track evolving AR threats better; and improve understanding of who is at risk.

- **Enhance global partnerships** for prevention and detection to combat AR internationally.
PCAST Rec. #6: Improving Stewardship of Existing Antibiotics in Health Care

- Stewardship in hospitals and long-term care facilities
- Antibiotic use in outpatient settings
- Measuring antibiotic use and resistance through CDC’s National Healthcare Safety Network (NHSN)
- Obtaining data on antibiotic use in ambulatory settings
- Technical assistance to implement antibiotic stewardship in healthcare settings, including federal government facilities
- Research on improving stewardship programs
- Patient education

PCAST Report to the President on Combating Antibiotic Resistance, September 2014
CDC’s FY 16 Proposed Budget Increase
National Healthcare Safety Network (NHSN)

+$14M: Critical NHSN Improvements to Support the State AR Prevention Programs

• Implement the Antibiotic Use and Resistance (AUR) modules to rapidly detect AR threats
  ➢ Extend participation through electronic reporting in the AU module
  ➢ Support implementation of AR module through electronic reporting
  ➢ Refine AUR measures for National Quality Forum review
Track and Improve Prescribing

Improve antibiotic use and reduce antibiotic resistance

- Provide data about antibiotic use to better understand prescribing
- Set national standards of antibiotic use to improve use and reduce resistance
- Ensure all hospitals have effective stewardship programs
- Understand and act upon state-by-state differences in antibiotic prescribing rates
- Evaluate and test intervention strategies to improve antibiotic prescribing
- Create state programs to improve antibiotic prescribing in hospitals and the community
CDC’s FY 16 AR Solutions Initiative

http://www.cdc.gov/drugresistance/solutions-initiative/