AR Solutions *In Action*

CDC's Investments to Combat Antibiotic Resistance Threats

FISCAL YEAR 2021

VIRGINIA

One local CDC fellow &
One local CDC AR expert

HIGHLIGHTS

$3,022,363

Funding for AR Activities
Fiscal Year 2021

FUNDING TO STATE HEALTH DEPARTMENTS

$1,114,877

RAPID DETECTION & RESPONSE: State, territory, and local public health partners fight AR in healthcare, the community, and food.
Programs use the AR Lab Network to rapidly detect threats and then implement prevention, response, and antibiotic stewardship to stop the spread of resistant germs. Additional resources, appropriated to CDC to fight COVID-19, will also help in the fight against AR by improving infection prevention and control in healthcare facilities.

$250,599

FOOD SAFETY projects protect communities by rapidly identifying drug-resistant foodborne bacteria to stop and solve outbreaks and improve prevention.
Virginia uses whole genome sequencing to track and monitor local outbreaks of *Listeria*, *Salmonella*, *Campylobacter*, and *Escherichia coli* and uploads sequence data into PulseNet for nationwide monitoring of outbreaks and trends. In Fiscal Year 2021, Virginia continued monitoring these isolates for resistance genes. When outbreaks are detected, local CDC-supported epidemiologists investigate the cases to stop spread.

$1,940

FUNGAL DISEASE projects improve our ability to track antifungal resistance and stop it from spreading.
With funding, Virginia increased their ability to identify and monitor for new and emerging resistance and implement strategies to prevent its spread in high-risk areas. Improving detection for fungal diseases, like *Candida auris*, means patients receive appropriate treatment and while reducing unnecessary antibiotic use.

FUNDING TO UNIVERSITIES & HEALTHCARE PARTNERS

$323,947

AMERICAN TYPE CULTURE COLLECTION: Innovative Prevention & Tracking
Experts are building a CDC International Antibiotic-Resistant Gonorrhea Isolate Bank to include diverse *Neisseria gonorrhoeae* strains based on geography, genomics, and antibiotic susceptibility profiles. This Bank will provide complementary data to CDC's AR Lab Network and help experts understand the emergence and spread of resistant gonorrhea, informing treatment, diagnostics, and prevention activities globally.

This data represents CDC's largest funding categories for AR. It shows extramural funding that supports AR activities from multiple funding lines.

COVID-19: coronavirus disease 2019
AR: antibiotic resistance **HAI:** healthcare-associated infection

CDC provides critical support in the U.S. and abroad to protect people from antibiotic resistance.

ARinvestments.cdc.gov

U.S. Department of Health and Human Services
Centers for Disease Control and Prevention

AR Solutions *In Action*

CDC's Investments to Combat Antibiotic Resistance Threats

FISCAL YEAR 2021

VIRGINIA AR Investments (cont.)

$831,000

U.S. CIVILIAN RESEARCH & DEVELOPMENT FOUNDATION: Global Expertise & Capacity Enhancements
CDC's global work to combat AR prevents the importation of AR threats into the United States. Experts are implementing a technical assistance program built on the capacity of the Jordanian healthcare system via the national Jordan HAI/AR Surveillance and Prevention Network.

$200,000

U.S. CIVILIAN RESEARCH & DEVELOPMENT FOUNDATION: Global Expertise & Capacity Enhancements
CDC's global work to combat AR prevents the importation of AR threats into the United States. Experts are assessing capacity for detection of AR in the Eastern Mediterranean Region.

$300,000

Discovering & Implementing What Works: Infectious Disease Society of America.
Experts are working with CDC to improve the implementation of best practices for antibiotic prescribing based on existing guidelines. This project is supporting the development of a standardized approach for incorporating stewardship principles and considerations into guideline development, as well as the creation of resources to support guideline implementation.

This data represents CDC's largest funding categories for AR. It shows extramural funding that supports AR activities from multiple funding lines.

COVID-19: coronavirus disease 2019
AR: antibiotic resistance **HAI:** healthcare-associated infection

CDC provides critical support in the U.S. and abroad to protect people from antibiotic resistance.

ARinvestments.cdc.gov

U.S. Department of Health and Human Services
Centers for Disease Control and Prevention