

AR Solutions *In Action*

CDC's Investments to Combat Antimicrobial Resistance Threats

FISCAL YEAR
2022

TENNESSEE

\$7,592,531

Funding for AR Activities
Fiscal Year 2022

One local CDC-supported fellow

Regional Lab for the AR Lab Network
(Southeast)

One of ten sites for the Emerging
Infections Program

HIGHLIGHTS

FUNDING TO STATE HEALTH DEPARTMENTS



\$2,847,260

AR LABORATORY NETWORK REGIONAL LAB: Regional labs boost state and local testing capacity and technology to detect, support response to, and prevent AR threats across the nation—and inform new innovations to detect AR.

In 2022, Tennessee provided testing surge capacity for AR testing from other AR Lab Network regional and state labs experiencing ongoing challenges related to the COVID-19 pandemic. Tennessee serves as critical resource supporting both its region and helping to maintain national AR testing capacity to ensure rapid identification of and response to urgent AR threats. These collaborations display the flexibility of the AR Lab Network and how CDC's investments can be adapted during a crisis.



\$1,059,445

RAPID DETECTION & RESPONSE: State, territory, and local public health partners fight AR in health care, the community, and food.

CDC-funded HAI/AR Programs form a network of health departments that detect, prevent, respond to, and contain HAI/AR threats and promote appropriate use of antibiotics and antifungals. CDC's AR Lab Network provides nationwide lab capacity to rapidly detect AR and inform local prevention and response activities to stop the spread of resistant germs and protect people.



\$400,754

FOOD SAFETY projects protect communities by rapidly identifying antimicrobial-resistant foodborne bacteria to stop and solve outbreaks and improve prevention.

Tennessee 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 2022, Tennessee continued monitoring these isolates for resistance genes. In addition, local CDC-supported epidemiologists investigate the cases when outbreaks are detected to stop the spread. Tennessee's Food Safety Center of Excellence supports other health departments to build capacity to track and investigate foodborne diseases.



\$106,862

FUNGAL DISEASE projects improve our ability to track resistance to antifungals and stop it from spreading.

With funding for fungal disease surveillance, Tennessee increased their ability to identify fungal diseases, 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 while reducing unnecessary antibiotic use.

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

ARinvestments.cdc.gov



U.S. Department of
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TENNESSEE AR Investments (cont.)



\$1,678,210

EMERGING INFECTIONS PROGRAM (EIP) sites improve public health by translating population-based surveillance and research activities into informed policy and public health practice.

The Tennessee EIP performs population-based surveillance for candidemia, *Clostridioides difficile*, invasive *Staphylococcus aureus*, and resistant gram-negative bacteria; conducts HAI and antimicrobial use prevalence surveys; and is completing a project on SARS-CoV-2 infections in healthcare personnel. As part of Tennessee's EIP FoodNet activities, they collect case information associated with antimicrobial-resistant infections and work with laboratories to prioritize sequencing of cases with exposure and antimicrobial use information.

Learn more: www.cdc.gov/hai/eip.

FUNDING TO UNIVERSITIES & HEALTHCARE PARTNERS



\$1,500,000

VANDERBILT UNIVERSITY MEDICAL CENTER: Global Expertise & Capacity Enhancements

CDC's global work to combat AR helps prevent the importation of AR threats into the United States. Experts work in Greece as part of the Global Action in Healthcare Network (GAIHN), developing a global network to address emerging infectious diseases threats in healthcare facilities through rapid detection and collaborative surveillance, prevention, and response. GAIHN works as part of CDC's Global AR Lab & Response Network to address priority AR healthcare pathogens.

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