

AR Solutions *In Action*

CDC's Investments to Combat Antibiotic Resistance Threats

FISCAL YEAR
2020

COLORADO

\$3,084,739

Funding for AR Activities
Fiscal Year 2020

One of 10 sites for the
Emerging Infections Program

HIGHLIGHTS

FUNDING TO STATE HEALTH DEPARTMENTS



\$796,528

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.



\$320,312

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

Colorado uses whole genome sequencing to track and monitor local outbreaks of *Listeria*, *Salmonella*, *Campylobacter*, and *E. coli* and uploads sequence data into PulseNet for nationwide monitoring of outbreaks and trends. In Fiscal Year 2020, Colorado will continue monitoring these isolates for resistance genes. When outbreaks are detected, local CDC-supported epidemiologists investigate the cases to stop spread. CDC also funds Colorado's Food Safety Center for Excellence, which provides assistance and training to other health departments to build capacity to track and investigate foodborne disease.



\$107,903

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

With funding for fungal disease surveillance, Colorado 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 and while reducing unnecessary antibiotic use.



\$807,511

GONORRHEA RAPID DETECTION & RESPONSE works with state and local epidemiology and laboratory partners to test for and quickly respond to resistant gonorrhea to stop its spread in high-risk communities. Only one treatment option remains for gonorrhea and resistance continues to grow.

During 2019, the Colorado SURRG project completed testing for about 21% of the more than 3,200 gonorrhea cases reported in Denver County. They identified 67 samples that did not respond optimally to recommended antibiotics and followed up with those patients and their sex partners. This data helps inform national treatment guidelines for gonorrhea through the Gonococcal Isolate Surveillance Project (GISP).

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

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COLORADO AR Investments (cont.)



\$1,052,485

EMERGING INFECTIONS PROGRAM (EIP) sites improve public health by translating population-based surveillance and research activities into informed policy and public health practice. This work is also funded in part by resources appropriated to CDC to support its response to coronavirus disease 2019 (COVID-19).

The Colorado EIP performs population-based surveillance for candidemia, *C. difficile*, and resistant Gram-negative bacteria; conducts HAI and antibiotic use prevalence surveys; develops surveillance for non-tuberculous mycobacteria; develops and standardizes surveillance and outbreak response for foodborne infections; participates in a collaboration with CDC Prevention Epicenters; and supports special projects. [Learn more: www.cdc.gov/hai/eip](http://www.cdc.gov/hai/eip).

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