AR Solutions *In Action*

CDC's Investments to Combat Antibiotic Resistance Threats

FISCAL YEAR 2018

KENTUCKY

$1,034,580

Funding for AR Activities
Fiscal Year 2018

HIGHLIGHTS

1 local CDC AR expert

FUNDING TO STATE HEALTH DEPARTMENTS

$351,935

RAPID DETECTION AND RESPONSE to novel or high-concern drug-resistant germs is critical to contain the spread of these infections.

With 2017 funding, Kentucky supported the investigation of an outbreak of MRSA joint infections in patients who received injections at an outpatient orthopedic clinic. Recommendations were made to address observed breaches in infection control and concerns with medication combinations, and no further cases were identified.

$337,529

HAI/AR PREVENTION works best when public health and healthcare facilities partner together to implement targeted, coordinated strategies to stop infections and improve antibiotic use.

With 2017 funding, Kentucky used CDC's National Healthcare Safety Network data to rank facilities and communicate to the lowest performer for *C. difficile* infections, leading to swift action and a sharp decline in the facility's *C. difficile* rates, from a standardized infection ratio (SIR) of 1.17 to an SIR of 0.68, the equivalent of preventing 55 infections.

$345,116

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

Kentucky 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 2019, Kentucky will begin simultaneously monitoring these isolates for resistance genes. When outbreaks are detected, local CDC-supported epidemiologists investigate the cases to stop spread.

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

AR: antibiotic resistance **HAI:** healthcare-associated infection

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

www.cdc.gov/ARinvestments

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