

SOUTH CAROLINA

\$1,369,229

Funding for AR Activities
Fiscal Year 2020

FUNDING TO STATE HEALTH DEPARTMENTS



\$698,862

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.



\$224,215

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

South Carolina 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, South Carolina will continue monitoring these isolates for resistance genes. When outbreaks are detected, local CDC-supported epidemiologists investigate the cases to stop spread.

FUNDING TO UNIVERSITIES & HEALTHCARE PARTNERS



\$446,152

UNIVERSITY OF SOUTH CAROLINA: Innovative Prevention & Tracking

Researchers will examine wastewater treatment plant (WWTP) systems to monitor for the presence of SARS-CoV-2 and AR to better understand community spread. The COVID-19 pandemic has resulted in increased antibiotic prescribing to prevent and treat secondary bacterial infections, which could drive significant changes in antibiotic resistance. WWTP systems have been identified as critical hubs for antibiotic resistance and may expose treatment plant workers to germs. The results of the study will help CDC evaluate the performance of existing AR monitoring systems, inform guidance to protect utility workers, and establish a foundation for using municipal sewage as an indicator of community-wide viral infection burden.