

Investing to Defend the U.S. against Antibiotic Resistance

Antibiotic resistance (AR), when germs do not respond to the drugs designed to kill them, threatens to return us to the time when simple infections were often fatal. CDC is committed to protecting Americans and the future of healthcare, veterinary, and agriculture industries from the threat of antibiotic resistance.

The AR Investment Map showcases CDC's activities to meet national goals to prevent drug-resistant infections. CDC supports most of these activities through its AR Solutions Initiative, while also leveraging investments from successful programs across the agency for maximum efficiency.

CDC's AR Solutions Initiative puts state and local AR laboratory and epidemiological expertise in every state and makes investments in public health innovation to fight AR across healthcare settings, food, and communities.

DETECTION, RESPONSE & CONTAINMENT

- **Laboratory & Diagnostics:** Gold-standard lab capacity offered to all state and regional labs through CDC's AR Laboratory Network
- **Epidemiology Capacity for Response:** Increased capacity in state and local health departments for rapid detection and faster response to outbreaks and emerging resistance related to healthcare-associated infections, foodborne bacteria, and gonorrhea—to contain and control spread

PREVENTION

- **Surveillance & Science:** More effective prevention of healthcare-associated infections, foodborne illness, and gonorrhea
- **Improved Antibiotic Use:** With partners, improve antibiotic use to ensure antibiotics work to protect patients from life-threatening infections or sepsis

INNOVATION

- **Insights for Practice:** With academic and healthcare partners, CDC is investing in innovations and collaborating with investigators to identify and implement new ways to prevent antibiotic-resistant infections and their spread
- **Research and Development:** Sharing isolates that inform development of new drugs and diagnostics, and making public CDC's sequencing data from AR pathogens to spur innovation in industry

These investments work toward meeting national goals to prevent drug-resistant infections as outlined in the *National Action Plan for Combating Antibiotic-Resistant Bacteria*.

See CDC's AR investments by state at www.cdc.gov/ARInvestments.

This map represents CDC's largest funding categories for antibiotic resistance. It shows domestic, extramural funding that supports AR activities from multiple funding lines.

Since 2016, CDC's AR Solutions Initiative has supported comprehensive AR work nationwide.

- \$144 million to 57 state and local health departments
- \$76.5 million for public health innovations
- 61 public/private institutions
- 84 applied public health research projects

HIGHLIGHTS

AR: antibiotic resistance HAI: healthcare-associated infection

CDC provides critical support to every state to protect Americans from antibiotic resistance.

www.cdc.gov/ARInvestments



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