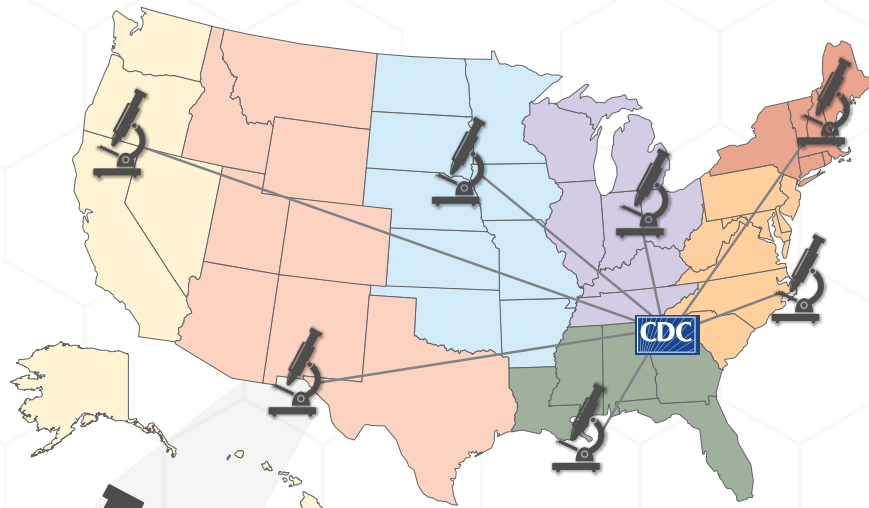


Antibiotic Resistance (AR) Solutions Initiative: AR Lab Network

CDC's AR Lab Network closes the gap between hospital capabilities and data needed to combat AR—a network of state and regional labs fully equipped to detect resistance.

CDC's AR Lab Network:

- Comprehensive lab capacity for antibiotic-resistant pathogens
- Gold standard labs and cutting-edge technology at local level
- Faster outbreak detection and response, better tracking of resistance
- Real-time, actionable data to prevent and combat future AR threats



DETECT

Stronger detection of new resistance and better big-picture trend tracking to **create pathogen-specific solutions** and **support national public health strategies**

AR Regional Lab

RESPOND

When AR threats, like “nightmare bacteria” or CRE, are reported, state and regional labs will work together to **identify how transmission is occurring** at the local level and **support outbreak response**

PREVENT

Better data **for stronger infection control** to prevent and combat future AR threats

INNOVATE

Lab samples will be made available through the **AR Isolate Bank**, which researchers can use to develop earlier diagnoses and more effective treatment options

Using AR Isolate Bank samples:

- *Pharmaceutical Companies* can test and create new antibiotics
- *Biotech & Diagnostics* can design next generation clinical tests
- *Researchers* can study emerging resistance and investigate spread

We need more data to stop antibiotic resistance. The AR Lab Network establishes the infrastructure to generate actionable data, stop spread of resistance, and inform future prevention strategies.