

# CDC'S GLOBAL AR PROJECTS

## \$3,153,184

Funding for AR Activities  
Fiscal Year 2019

High levels of antibiotic-resistant germs are in all countries and regions of the world. Early and aggressive action can keep germs with unusual resistance from spreading and protect the health and security of the United States. In addition to the work shown here, CDC is leveraging expertise gained from its work domestically to collaborate with global partners on pilot projects and on outbreak responses of resistant germs around the world.

## SINGLE-COUNTRY AR PROJECTS



### Chile

Researchers will examine what happens to humans when they are exposed to antibiotic-resistant germs in water from a community in **Chile**.



### Colombia

Experts are working in **Colombia** to evaluate innovative approaches that improve antibiotic use and strategies to contain the spread of antibiotic-resistant germs and genes.



### Guatemala

Experts are working in **Guatemala** to develop and test a period prevalence survey of multi drug-resistant organism colonization in communities and hospitals that serve them.



### India

Investigators will evaluate hospital-onset bacteremia in healthcare facilities in **India** as a feasible, useful, and acceptable metric for HAI surveillance in low- and middle-income countries. In addition, CDC supports an expert in India to combat AR locally.



### Mexico

This project with the **U.S.-Mexico Foundation for Science** and the **Mexican Ministry of Health** develops capacity and processes to inform the scale-up of tuberculosis (TB) diagnostics in **Mexico** for rapid identification of drug resistant strains, as well as strengthens TB surveillance and treatment outcomes. The project is based in two Mexican states along the U.S. border that have high rates of TB.



### Pakistan

Experts are working with the **World Health Organization-Eastern Mediterranean Regional Office (EMRO)** in **Pakistan** to implement their national AR surveillance plan and enhance infection prevention and control in healthcare facilities.

# AR Solutions *In Action*

CDC's Investments to Combat Antibiotic Resistance Threats

FISCAL YEAR  
**2019**

## GLOBAL AR Projects (cont.)



\$160,177

### Spain

In **Spain**, researchers will identify and evaluate different structures and dynamics of *Salmonella* plasmids and how they spread antibiotic resistance.



\$100,000

### Thailand

Experts are working with the **Ministry of Public Health, Thailand** to strengthen AR surveillance through the development of a national AR reporting and response system aimed at monitoring and controlling AR in **Thailand**.



\$125,000

### Vietnam

Experts are working in **Vietnam** to strengthen national infection prevention and control policies and enhance AR data collection, analysis, and surveillance in healthcare facilities.

## MULTI-COUNTRY AR PROJECTS



\$600,000

Experts are working in several countries to develop resources to support infection prevention and control (IPC) in emergency preparedness and outbreak responses and a methodological framework for estimating the cost-effectiveness of IPC interventions. The **World Health Organization (WHO)** plans, develops, and implements protocols to assess the burden and impact of AR in low-resource settings.



\$250,000

Experts are working throughout **Latin America** to implement national policy, guidelines, and tools to strengthen infection prevention and control capacities to decrease HAI burden and contain communicable diseases at the healthcare facility level. **Pan American Health Organization (PAHO)** supports countries to establish national AR surveillance systems to report laboratory and epidemiology information.



\$339,500

Experts are working in **Nigeria** and **Senegal** to identify critical resistant pathogens in Francophone and Anglophone West Africa through improved detection and reporting of novel types of antibiotic resistance genes.

Learn more about CDC's work to combat antibiotic resistance globally:

[www.cdc.gov/DrugResistance](http://www.cdc.gov/DrugResistance)

[www.cdc.gov/InfectionControl](http://www.cdc.gov/InfectionControl)

[www.cdc.gov/GlobalHIVTB](http://www.cdc.gov/GlobalHIVTB)

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

[www.cdc.gov/ARinvestments](http://www.cdc.gov/ARinvestments)



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