AR Solutions *In Action*
CDC's Investments to Combat Antibiotic Resistance Threats

CDC'S GLOBAL AR PROJECTS

$6,364,000
Funding for AR Activities Fiscal Year 2020

HIGHLIGHTS

5 local CDC experts across India, Sierra Leone, Kenya, and Vietnam

SINGLE-COUNTRY AR PROJECTS

Bangladesh
$276,295

Experts are working in **Bangladesh** to perform a population-based study to detect extended-spectrum cephalosporin-resistant Enterobacteriaceae, carbapenem-resistant Enterobacteriaceae, and methicillin-resistant *S. aureus* colonization and assess association with possible exposures and risk factors.

China
$66,000

Experts are working in **China** to support the Chinese National Center for Tuberculosis Prevention and Control to scale up and implement projects designed to strengthen tuberculosis (TB) surveillance, improve TB infection control in healthcare facilities, and build a quality TB laboratory network in China.

Colombia
$240,000

Experts are working in **Colombia** to complete a national assessment of multidrug-resistant organism and emerging pathogen prevention guidelines and practices in healthcare facilities.

Ethiopia
$200,000

Teams based out of Ethiopia are working in **India** to support laboratory networks, communities of practice and quality assurance systems through lab management and improvement activities for TB and MDR-TB, Lab ECHO network, as well as continue Trunat EQA.

Georgia
$347,000

Experts are working in **Georgia** to support implementation of an AR surveillance system, analyze healthcare-associated infections and AR, and provide infection prevention and control (IPC) training to healthcare facilities. In addition, the partner supports regional meetings to review IPC and AR best practices in various regions.

Guatemala
$600,000

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

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

COVID-19: coronavirus disease 2019
AR: antibiotic resistance **HAI:** healthcare-associated infection

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

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India

$137,000

Experts are working in **India** to implement and sustain laboratory-based AR detection and reporting of all World Health Organization (WHO) priority pathogens across the country.

India

$200,000

Experts are working in **India** to conduct active household contact tracing for active and latent tuberculosis intervention in Nagpur, India; evaluate latent TB infection treatment for contacts of multidrug-resistant TB patients; expand infection prevention and control measures; and develop and implement community score card to assess and improve uptake of TB and TB/HIV services.

India

$116,000

Experts are working in **India** to integrate surveillance for HAIs with the national health system, improve infection prevention and control practices, support development of AR containment policies, and respond to AR and HAI-related threats or events, including outbreaks.

Kenya

$100,000

Experts are working in Kenya to provide Project ECHO laboratory training and support and conduct an evaluation of the laboratory system..

Kenya

$250,000

Experts are working in **Kenya** to establish a hospital network, conduct AR surveillance, and expand infection prevention and control quality improvement projects.

Kenya

$400,00

Experts are working in **Kenya** to test a point prevalence survey of antibiotic use and track transmission of drug-resistant germs between community hospitals.

Nigeria

$261,900

Experts are working in **Nigeria** to perform an evaluation of the early implementation of the Turn Nigeria Orange Infection Prevention and Control Network and support the University of Lagos to provide training to IPC focal persons in the West Africa region.

South Africa

$300,000

Experts are working in **South Africa** to expand whole genome sequencing capacity for the detection and control of drug-resistant tuberculosis.

Switzerland

$141,593

Teams based out of Switzerland are working in **Vietnam** to engage and leverage the Public Private Interface Agency Model to rapidly and expand public-private mix for tuberculosis diagnosis, care, and prevention.

Thailand

$103,259

Experts are working to implement a network to detect, control, and prevent the spread of carbapenem-resistant Enterobacteriaceae in **Thailand**.

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Thailand

$469,786

Experts are working in **Thailand** to support sub-national reference laboratory capacity building for a regional AR isolate referral network; conduct outbreak, scientific writing, and AR quality improvement training workshops; and conduct an AR surveillance system evaluation and infection prevention and control training on AR prevention.

Vietnam

$150,000

Experts are working in **Vietnam** to expand the AR surveillance system and provide support to AR surveillance laboratories to meet minimum standards.

Vietnam

$58,407

Experts are working in **Vietnam** to improve the diagnosis and surveillance of multidrug-resistant and extensively drug-resistant (XDR) tuberculosis through Rifampin resistance surveillance and establishing rapid XDR TB diagnosis and treatment. The team is also working to support the Vietnam National TB Reference Laboratory to become a TB supranational reference laboratory.

MULTI-COUNTRY AR PROJECTS

$100,000 — Experts are working with **Africa CDC** to support infection prevention and control and AR work.

$204,760 — Experts are working in **Botswana**, **Lesotho**, **Malawi**, **Eswatini**, **Tanzania**, and **Uganda** to optimize approaches for the diagnosis and prevention of tuberculosis, including multidrug-resistant TB, in adults and children living with HIV.

$238,000 — Experts are working in **Southeast Asia** to assess capacity for detection of AR in the region.

$1,000,000 — Experts work throughout **Latin America** to implement national policies, guidelines, and tools to strengthen infection prevention and control capacities to decrease HAI burden and contain communicable diseases at the healthcare facility level. Experts will also conduct a pilot for detection and response to infectious disease threats in healthcare settings. PAHO supports countries to establish national AR surveillance systems to report laboratory and epidemiology information.

$194,000 — Experts are working in **South America** to assess the implementation of carbapenem-resistant organization control policies in intensive care units (ICUs), assess the impact of widespread transmission of COVID-19 on antibiotic use and prevalence of multidrug-resistant organisms in adult ICUs, and pilot an IPC assessment tool in neonatal ICUs.

$210,000 — Experts are working to assess capacity for detection of AR in the **Eastern Mediterranean Region**.

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

www.cdc.gov/DrugResistance
www.cdc.gov/InfectionControl
www.cdc.gov/GlobalHIVTB

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