

NIAID International Research Activities FY 2020 Sub-Saharan Africa Region

About NIAID

The National Institute of Allergy and Infectious Diseases (NIAID), part of the U.S. National Institutes of Health (NIH), conducts and supports basic and clinical research to better understand, treat, and prevent infectious, immunologic, and allergic diseases. For more than 60 years, NIAID research has led to new therapies, vaccines, diagnostics, and preventive strategies that have improved the health of millions of people in the United States and around the world.

Figure 1. Countries With NIAID-Funded Research



Research Priorities

The World Health Organization (WHO) estimates that HIV/AIDS, tuberculosis (TB), and malaria claim an estimated 3 million lives in the region each year. Other parasitic diseases, such as hookworm and schistosomiasis, also are prevalent, mostly among children, and cause hundreds of thousands of deaths and widespread suffering each year.

Regional Projects

NIAID supported 424 research projects in 34 Sub-Saharan African countries during fiscal year (FY) 2020 (Figure 1). Total NIAID international health research funding in Sub-Saharan Africa was \$312 million.

Countries With NIAID-Funded Research

Benin	Gabon	Nigeria
Botswana	Ghana	Rwanda
Burkina Faso	Guinea	Senegal
Burundi	Guinea-Bissau	Sierra Leone
Cameroon	Kenya	South Africa
Congo, Rep. of	Lesotho	Tanzania
Congo (D.R.C.)	Liberia	The Gambia
Cote d'Ivoire	Madagascar	Togo
Equatorial Guinea	Malawi	Uganda
Guinea	Mali	Zambia
Eswatini	Mozambique	Zimbabwe
Ethiopia	Namibia	

Selected Special Events

NIH Visitors

- International Visitor Leadership Program—Combating Infectious Diseases I and II (Benin, Burkina Faso, Cameroon, Central African Republic, Chad, Comoros, Cote d'Ivoire, Ethiopia, Guinea, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Namibia, Niger, Nigeria, Rwanda, Senegal, Tanzania, Uganda, Zambia, Zimbabwe)
- University of Sciences, Techniques, and Technology of Bamako (Mali)

Selected NIAID Regional Programs

The Centers for Research in Emerging Infectious Diseases (CREID) network is a coordinated group of emerging infectious disease research centers around the world. Multidisciplinary teams of investigators conduct pathogen/host surveillance, study pathogen transmission, examine pathogenesis and immunologic responses in the host, and develop reagents and diagnostic assays.



The **COVID-19 Prevention Network (CoVPN)** brings networks and global partners together to address the pressing need for vaccines and monoclonal antibodies against SARS-CoV-2. Partners include the HIV Vaccine Trials Network (HVTN), HIV Prevention Trials Network (HPTN), the Infectious Diseases Clinical Research Consortium, and AIDS Clinical Trials Group (ACTG).

The **HIV/AIDS Clinical Trials Networks** study critical questions related to HIV and AIDS through the ACTG, HPTN, HVTN, International Maternal Pediatric Adolescent AIDS Clinical Trials (IMPAACT) Network, and Microbicide Trials Network (MTN).

The **International Centers of Excellence for Malaria Research (ICEMR)** conduct research to enhance malaria prevention and control in epidemic areas.

The **International Centers for Excellence in Research (ICER)** conduct sustained research activities involving U.S. and local scientists in Mali and Uganda. Scientists conduct research on infectious diseases, including HIV/AIDS, malaria, and TB.

The **International epidemiology Databases to Evaluate AIDS (IeDEA)** cohort consortium supports regional groups in population-level effectiveness and implementation research based on extremely large clinical databases of people with or at risk of HIV infection.

The **International Collaborations in Infectious Disease Research (ICIDR)** program establishes relationships to support the study of tropical medicine and emerging infectious diseases research.

The **Partnership of Clinical Research in Guinea (PREGUI)** supports public health priorities in Guinea and builds sustainable research capacity.

The **Partnership for Research on Ebola Virus in Liberia (PREVAIL)** supports collaborative research on hemorrhagic fever viruses and other infectious diseases.

The **U.S.-South Africa Program for Collaborative Biomedical Research** supports collaborations between U.S. and South African scientists on research related to TB, HIV, and HIV-associated comorbidities, including cancer and other infectious diseases.

NIAID Office of Global Research (OGR)

OGR facilitates and coordinates NIAID's international activities and collaborative research programs. OGR works closely with other NIH Institutes and

Selected NIAID-Supported Science Advances

- An NIAID study that followed 1,814 pregnant women in Mali to provide baseline data for future malaria vaccine trials found that low gravidity and young age predicted perinatal death and preterm delivery. Prenatal care and pregnancy outcome information was collected using interviews, reviews of medical records, and physical examinations of newborns.
- NIAID supported a randomized controlled trial in the Democratic Republic of the Congo to test therapeutics for Ebola virus disease (EVD). The investigational therapeutics mAb114 and REGN-EB3 offered patients a greater chance of surviving EVD compared to the investigational treatment ZMapp.
- South Africa has a unique population of organ transplant recipients with HIV who have received organs from donors with HIV. NIAID-supported investigators conducted a study to evaluate renal transplantation outcomes in people with HIV who received organs from donors with HIV. They found that transplant patients had favorable clinical outcomes and did not show any signs of transmitted drug resistance.

Centers, offices and agencies of the U.S. Department of Health and Human Services, and numerous foreign government agencies.

Department of Health and Human Services
National Institutes of Health
ATTN: NIAID Office of Global Research
5601 Fishers Lane, MSC 9802
Bethesda, MD 20892-9802 USA
Tel: 301-496-0070, Fax: 301-480-2954
Email: niaidogrppc@niaid.nih.gov
<https://www.niaid.nih.gov/research/global-research>

Melissa Adomako, Regional Officer
Holly Curtis, Regional Officer
Steven Reynolds, NIAID representative in Uganda
Email: sjreynolds@niaid.nih.gov
Fatoumata Bathily, NIAID representative in West Africa
Email: fatoumata.bathily@nih.gov



National Institute of
Allergy and
Infectious Diseases