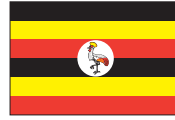# UGANDA

The Department of Health and Social Care (DHSC)'s Fleming Fund is a UK aid programme that supports up to 25 countries across Africa and Asia to tackle antimicrobial resistance (AMR), a leading public health threat, globally. The Fleming Fund invests in strengthening surveillance systems through a portfolio of Country Grants, Regional Grants, and Fellowships managed by Mott MacDonald and Global Projects managed by DHSC partners.

Country Context

The Fleming Fund in Uganda aims to strengthen surveillance systems for AMR, antimicrobial use (AMU) and antimicrobial consumption (AMC) in animal, human and environmental health sectors through a One Health approach.

Guided by the AMR National Action Plan (AMR-NAP) 2018-2023, Uganda's interventions sought to prevent, slow down and control the spread of resistant organisms and protect endangered antimicrobials by influencing change in health practices and policy.

The Uganda Country Grants in phase 2 aim to build on and maximise the impact of investments made to date by supporting the multi-stakeholder revision of the NAP for AMR. This involves consolidating surveillance toward an integrated One Health system to produce data-driven decisions and policymaking.

Phase 2 Country Grant – Expected Results

10 Support reference laboratories and ten surveillance sites in human and animal health to operate at the core level.

Support whole genome sequencing (WGS) of isolates from the Tricycle integrated surveillance activity and incorporate data into the national database.

Support integrated One Health surveillance through implementing the WHO Tricycle ESBL- E. coli methodology.

Support review of the human health (HH) and animal health (AH) AMU surveillance strategies and protocols.

Support stewardship committees at eight surveillance sites to classify and monitor antibiotic use in line with the WHO AWARE classification.

Support sites in generating data for analysis and work with the government to report AMR data to the WHO Global Antimicrobial Resistance Surveillance System (GLASS).

Carry out active surveillance in the poultry and dairy sectors, improve the animal health sample transportation system, and pilot AMR surveillance in aquaculture.

Undertake WHO Point Prevalence Surveys (PPS) to collect AMU data from supported hospital sites.

Support surveillance sites in AMR data collection on infections from priority patient groups to improve clinical management.

Support the government in developing a national framework to inform laboratory improvements in line with the NAP monitoring and evaluation plan.

Implement AMR and AMU data collection strategies in private sector hospitals and community pharmacies.

Engage veterinary practitioners, paravets, and extension workers to improve practices.

Phase 2

Country Grant

Grantee: Infectious Disease Institute
Value: £1,499,973
Duration: Mar 2024 - Dec 2025

Grantee: Baylor Foundation Uganda
Value: £3,000,000
Duration: Mar 2024 - Dec 2025

Fellowships

No. of Fellows: 10
Host Institute: University of Edinburgh
Total value: £2,618,011 (across multiple countries, including Uganda)
Total duration: May 2024 – Dec 2025

Regional Grants

(Across multiple countries, including Uganda)

African Society for Laboratory Medicine
Mapping Antimicrobial Resistance and Antimicrobial Use Partnership (MAAP)
Value: £2,997,523
Duration: Dec 2023 - Dec 2025

African Society for Laboratory Medicine
External Quality Assessment of Laboratory Data Africa (EQuAfrica)
Value: £2,458,558
Duration: Oct 2023 - Dec 2025

African Society for Laboratory Medicine
Qualifying the Workforce for AMR Surveillance in Africa and Asia (QWArS)
Value: £2,200,050
Duration: May 2023 - Dec 2025

International Vaccine Institute
Regional Antimicrobial Resistance Data Analysis for Advocacy, Response and Policy (RADAAR)
Value: £1,999,956
Duration: Dec 2023 - Dec 2025

Technical University of Denmark
Whole Genome Sequencing and Bioinformatics Capacity Building in Africa (SeqAfrica)
Value: £3,595,802
Duration: Oct 2023 - Dec 2025

Liverpool School of Tropical Medicine
Gender, Equity and Antimicrobial Resistance Mainstreaming (GEAR up)
Value: £2,199,925
Duration: Feb 2024 - Dec 2025

Fondation Merieux
Technical Assistance for Clinical Engagement Africa (TACE Africa)
Value: £1,822,408
Duration: Feb 2024 - Dec 2025

African Society for Laboratory Medicine
Technical Assistance for Data and Evidence Use Africa (TADEU Africa)
Value: £1,800,005
Duration: Feb 2024 - Dec 2025

International Livestock Research Institute
Antimicrobial Resistance and One Health East and Southern Africa (AMROH ESA)
Value: £1,800,000
Duration: Jan 2024 - Dec 2025

Strategic Alignment Grants

(Across multiple countries, including Uganda)

Brigham and Women's Hospital (BWH) WHONET: Management and Analysis of Microbiology Laboratory Data
Value: £453,328
Duration: Mar 2024 - Dec 2025

Commonwealth Pharmacists Association
Surveillance and Prescribing Support for Antimicrobial Stewardship Resource Capacity Building (SPARC)
Value: £806,742
Duration: Mar 2024 - Dec 2025

Country Grants

Grantee: Infectious Disease Institute
Sub-grantees: College of Veterinary Medicine,
School of Pharmacy, Makerere University, HEPS
Uganda
Value: £6,229,836
Duration: Oct 2020 - Feb 2024

Fellowships

Number of Fellows: 11
Host Institution: University of Edinburgh
Value: £680,000
Duration: Nov 2018 - Dec 2021

Regional Grants

(Across multiple countries, including Uganda)

African Society for Laboratory Medicine
Mapping Antimicrobial Resistance and
Antimicrobial Use Partnership (MAAP)
Value: £7,054,881
Duration: Nov 2018 - Nov 2023

African Society for Laboratory Medicine
External Quality Assessment of Laboratory Data
Africa (EQuAfrica)
Value: £4,364,227
Duration: Oct 2019 - Sep 2023

African Society for Laboratory Medicine
Qualifying the Workforce for AMR Surveillance in
Africa and Asia (QWArS)
Value: £3,924,546
Duration: Oct 2019 - Apr 2023

International Vaccine Institute
Regional Antimicrobial Resistance Data Analysis
for Advocacy, Response and Policy (RADAAR)
Value: £2,715,217
Duration: Sep 2019 - Nov 2023

Technical University of Denmark
Whole Genome Sequencing and Bioinformatics
Capacity Building in Africa (SeqAfrica)
Value: £6,743,701
Duration: May 2019 - Sep 2023

Strategic Alignment Grants

(Across multiple countries, including Uganda)

Brigham and Women's Hospital
WHONET: Management and Analysis of
Microbiology Laboratory Data
Value: £889,044
Duration: Apr 2022 - Feb 2024

Commonwealth Pharmacists Association
Surveillance and Prescribing Support for
Antimicrobial stewardship Resource Capacity
Building (SPARC)
Value: £1,152,946
Duration: Dec 2021 - Feb 2024

Foundation for Innovative New Diagnostics
FIND: Enhance Laboratory Capabilities, Data
Visualisation, and Digital Health Platforms
Value: £2,586,227
Duration: Apr 2021 - Feb 2024

Phase 1 – Key Achievements

National Laboratory Quality standards and policies developed.

Microbiology SOPs and services across surveillance sites standardised.

Strengthened pathogen identification and Antimicrobial Susceptibility Testing.

Improved access to External Quality Assurance (EQA) programme.

6,102 priority AMR samples processed at 12 human health AMR surveillance sites. 2,968 AMR isolates transferred from surveillance sites to the National Health Laboratory and Diagnostic Services (NHLDS). 770 AMR isolates were re-tested, confirmed, and archived.

Conducted AMU and AMC surveys at ten fish farms in Mukono, Wakiso and Luwero districts.

Worked with local stakeholders to identify, assess, prioritise, and collate existing data on AMR, AMC, and AMU. Relevant data analysed to inform national stakeholders on surveillance capacity, data availability, resistance epidemiology, and AMC patterns.

Conducted five Point Prevalence Surveys at nine regional referral hospitals using the WHO PPS tool.

One Health task forces were activated in eight districts and trained on the NAP-AMR, providing leadership on the implementation of AMR activities at the sub-national level.

19 Training delivered for laboratory staff at 19 AMR surveillance sites, with topics including Laboratory Quality Management Systems, basic microbiology techniques, national Trainer of Trainers, biosafety and biosecurity techniques, and AMR data management including WHONET.

National mentorship programme developed to guide capacity development efforts in microbiology.

AMU activities incorporated into National Pharmaceutical Sector Strategic Plan, establishing continuity of AMU interventions with support from the Ministry of Health's pharmacy department.

Increased patient sampling for AMR detection and sustainability of facility-led AMR stewardship programme.

Established and strengthened Quality Management Systems in AH and HH NRLs.

The Fleming Fund

UKaid
from the British people

MM M
MOTT MACDONALD

@FlemingFund   flemingfund.org