

# Infectious Disease Detection and Surveillance (IDDS)

## **Quarterly Report**

January 1, 2021-March 31, 2021



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## **List of Abbreviations**

AMR Antimicrobial Resistance

BSL Biosafety Level

CBS Community-based Surveillance

CENAT Center for Tuberculosis and Leprosy Control

CME Continuous Medical Education

COVID-19 Coronavirus Disease 2019

CTD Central Tuberculosis Division

DHIS2 District Health Information Software, Version 2

DNA Diagnostic Network Assessment

DNL Direction Nationale des Laboratoires

DQA Data Quality Audit

DR Drug-resistant

DRC Democratic Republic of the Congo

DST Drug Susceptibility Testing

EBS Event-based Surveillance

EQA External Quality Assurance

EVD Ebola Virus Disease

FAO Food and Agriculture Organization of the United Nations

FY Fiscal Year

GHS Global Health Security

GOI Government of India

HMIS Health Management Information System

IDDS Infectious Disease Detection and Surveillance

INRB Institut National de Recherche Biomédicale

INSP National Institute of Public Health

IR Intermediate Result

IRL Intermediate Reference Laboratory

LPA Line Probe Assay

M&E Monitoring and Evaluation



MDR Multi-drug Resistant

MOH Ministry of Health

MOU Memorandum of Understanding

NASIC National Antimicrobial Stewardship Interagency Committee

NPHL National Public Health Laboratory

NTEP National Tuberculosis Elimination Program

NTP National Tuberculosis Program

NTRL National Tuberculosis Reference Laboratory

PCR Polymerase Chain Reaction

QMS Quality Management System

RDT Rapid Diagnostic Test

RPHL Regional Public Health Laboratory

SIZE System for Zoonotic and Emerging Infectious Disease

SOP Standard Operating Procedure

TB Tuberculosis

TWG Technical Working Group

USAID United States Agency for International Development

VTM Viral Transport Media

WHO World Health Organization

# **Program Overview**

## **Summary Overview**

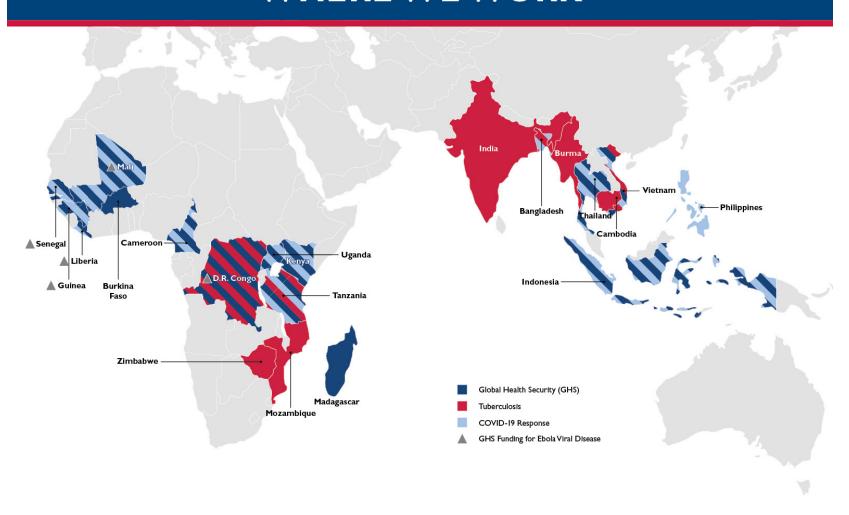
Activity Name:	USAID Infectious Disease Detection and Surveillance		
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Contract Number:	GS00Q14OADU119		
Names of Partners:	PATH, FHI 360, African Society for Laboratory Medicine,		
	Metabiota, Abt Associates, Gryphon Scientific,		
	Association for Public Health Laboratories, Fondation		
	Mérieux		
Geographic Coverage:	Countries: Bangladesh, Burkina Faso, Burma, Cambodia,		
	Cameroon, Democratic Republic of the Congo, Guinea,		
	Kenya, India, Indonesia, Liberia, Madagascar, Mali,		
	Philippines, Senegal, Tanzania, Thailand, Uganda,		
	Vietnam, Zimbabwe		
	Regions: Regional Development Mission Asia		
	Core: Tuberculosis		
Reporting Period:	January 1, 2021–March 31, 2021		

## **Program Description**

The Infectious Disease Detection and Surveillance (IDDS) project is strengthening the capacity of 20 countries in Africa and Asia to effectively detect and monitor outbreaks of infectious diseases, improve identification and reporting of antimicrobial resistance (AMR) pathogens, increase tuberculosis (TB) detection and notification, and strengthen disease surveillance (Figure 1). The project's two primary intermediate result (IR) objectives are to strengthen country-level diagnostic networks (IR1) and surveillance systems (IR2).

Figure 1: IDDS project map

# INFECTIOUS DISEASE DETECTION AND SURVEILLANCE (IDDS) PROJECT WHERE WE WORK



## **Quarterly Progress**

#### FY 2021 Q1 Overall Achievements

This report summarizes activities that occurred during quarter 2 (Q2) of fiscal year (FY) 2021 and program year 3: January 1, 2021, through March 31, 2021. This quarter, the project operated 14 Global Health Security (GHS) programs and 7 TB programs and served as a critical partner for the U.S. Government's response to the Coronavirus Disease 2019 (COVID-19) pandemic in 6 countries and to the Ebola outbreak in 5 countries.

#### **GLOBAL HEALTH SECURITY**

#### **Strengthening National Diagnostic Networks**

IDDS is a key partner for countries in meeting objectives of the Global Health Security Agenda partnership and the U.S. Government's Global Health Security Strategy. Through GHS funding, IDDS is developing national diagnostic networks that are accessible, accurate, adaptable, timely, and integrated. A strengthened network is one that is:

- · Reliable, accurate, and provides rapid testing and reporting
- Enables effective communication between patients, clinicians and veterinarians, laboratories, and public health officials
- Spans the tiered levels from point-of-care to national and supranational sites

In FY 2021 Q2, IDDS supported 14 countries to strengthen their diagnostic networks. Key progress in this area is presented in the sections that follow.

#### Identifying and addressing gaps in diagnostic networks (IR 1.1)

In FY 2021, IDDS provided support to countries to identify and address gaps in diagnostic networks, which included assessing existing capacity in diagnostic networks, improving quality control and assurance of diagnostic services, strengthening capacity for diagnostic testing of AMR and other priority pathogens, and enhancing specimen transport referral and reporting systems.

IDDS country teams assessed existing diagnostic capacity by working closely with in-country stakeholders to review national laboratory plans and map diagnostic networks. In **Madagascar**, IDDS contributed to development of a draft *Plan Strategique des Laboratoires* by comparing across other country programs to integrate best practices. In **Thailand**, as part of support to the Regional Public Health Laboratory (RPHL) Network, IDDS facilitated a video conference on COVID-19 vaccine development and monitoring for participants across seven countries and key donor partners, and facilitated additional RPHL meetings to support key decision-making related to addressing gaps in the network in 2021. IDDS conducted mapping activities for laboratories in the **Democratic Republic of the Congo** (DRC), **Cameroon**, and **Mali**.

Building capacity for facilities to implement improved **quality management systems** (QMS) remained an IDDS priority in FY 2021 Q2. IDDS country teams provided technical assistance to support laboratories in several countries to move toward expanding the scope of their accreditation. For example, in **Kenya**,

IDDS supported two referral hospitals to be accredited for their bacteriology services and is advocating counties to cover accreditation fees. In **Liberia**, IDDS provided support for Stepwise Laboratory Quality Improvement Process Towards Accreditation audits conducted by country teams for Strengthening Laboratory Management Towards Accreditation-enrolled facilities. IDDS trained a group of trainers to support veterinary laboratories to meet ISO 17025:2017 standards in **Uganda**. In **Mali**, IDDS QMS support involved conducting biosafety and biosecurity assessments, developing improvement plans, and providing onsite coaching for the Ségou Regional Hospital Laboratory and the National Institute of Public Health (INSP) Laboratory.

IDDS worked to strengthen **specimen referral** and reporting systems. For three countries, this involved support to create a national specimen referral and transport system or framework. In **Burkina Faso**, where the focus was on a One Health approach, IDDS supported the development of costed recommendations for an integrated specimen referral system for AMR testing and comprehensive system guidance documents. In **Kenya**, IDDS finalized operational frameworks for specimen referral in IDDS-supported counties and developed an AMR surveillance isolate referral guide with guidance on packaging and transportation, which will be integrated into the existing system. In **Vietnam**, IDDS prepared a roadmap for developing an integrated human health specimen referral system.

Through all activities in this category, IDDS worked with a complex set of in-country stakeholders to **ensure participation and ownership of testing and capacity-building activities.** In **Tanzania**, this meant working with the National Public Health Laboratory (NPHL) and Medical Stores Departments within the Ministry of Health (MOH) to develop a supportive supervision checklist, which was jointly implemented. Building long-term capacity to sustain human resources for laboratory testing capabilities was also a priority in FY 2021 Q2. In **Kenya**, IDDS worked with the Aga Khan University Hospital Laboratory and NHPL to hold virtual continuing education on using laboratory QMS and low-cost microbiology to detect AMR. The education series included case scenarios and information on low-cost technologies for facilities to harness. In **Liberia**, IDDS completed the development of a curriculum for a new Bachelor of Medical Laboratory Sciences degree for the University of Liberia, College and Health Sciences.

Table 1: Project outputs related to strengthening diagnostic networks for FY 2021 Q2 and the countries that contributed to these outputs

GHS IR 1.1: Gaps in diagnostic networks identified and essential components supported							
	TOTAL	Equipment Maintenance	Commodity Management	QMS	Specimen Referral	Biosafety	Other Diagnostic Network Topics
People Trained	58	0	0	27	10	21	0
SOPS, Plans, and Guidelines	11	0	1	0	7	2	1
Developed, Revised, or							
Disseminated							
TWG Group Meetings Held	0	0	2	2	15	0	2
Supervisory Visits Conducted	17	0	1	9	0	0	7
Items Procured <sup>1</sup>	10	4	0	0	6	0	0
Pilots Conducted	0	0	0	0	0	0	0
Assessment Reports Completed	3	0	0	0	1	1	1
Countries <sup>2</sup>							

GHS IR 1.1: Gaps in diagnostic networks identified and essential components supported							
	TOTAL	Equipment Maintenance	Commodity Management	QMS	Specimen Referral	Biosafety	Other Diagnostic Network Topics
Burkina Faso					•		
Cameroon							
DRC					•		•
Indonesia EPT							
Kenya							
Liberia		•	•	•			
Madagascar							•
Mali				•		•	
Senegal							
Tanzania			•			•	
Thailand EPT					_		
Uganda				•	•		
Vietnam					•		

<sup>&</sup>lt;sup>1</sup> Items procured include equipment, supplies, or reagents for either diagnostic or surveillance activities, as per the approved work plan. Items can also include laptops, printers, or modems, they but do not include routine administrative materials (e.g., office supplies).

Integrating appropriate diagnostic network components among various infectious diseases (IR 1.2)

As countries advance to having stronger diagnostic networks, integrating network components to ensure that they utilize a One Health approach will enable faster communication across patients, clinicians and veterinarians, laboratories, and public health officials, and support faster detection and response to infectious diseases. In FY 2021 Q2, IDDS supported developing frameworks and guidelines, mapping human and animal health laboratories, and designing improved integrated specimen referral and transport networks. In **Uganda**, IDDS finalized testing standards for seven priority zoonotic diseases across human and animal health. This work was in support of a framework that will enable the integration of diagnostic components in animal and human health laboratories. In Burkina Faso, IDDS finalized a report on costed recommendations to improve the One Health and AMR specimen referral and transport system, along with guidance documents to support overall integration. IDDS also worked to optimize One Health laboratory networks in several countries. In Cameroon, for example, IDDS completed data quality reviews of all previously mapped human and animal laboratories. In Vietnam, IDDS mapped four veterinary laboratories at the subnational level and found low levels of available veterinary laboratory capacity and poor biosafety. IDDS support in Vietnam also led to development of a roadmap for an integrated human health specimen referral system and work with the Department of Animal Health to draft guidelines for animal-related specimen collection, packaging, and transport to inform an animal health specimen referral system. Finally, the IDDS team provided technical assistance in Kenya to the National Antimicrobial Stewardship Interagency Committee (NASIC) to map the human and animal specimen referral network.

<sup>&</sup>lt;sup>2</sup> Countries listed are those that contributed to specific outputs this Q2. Countries that are working toward, but have not achieved, an output are not included.

Improving capacity to detect priority pathogens and AMR (IR 1.3)

As part of **building capacity to detect priority pathogens and AMR**, IDDS contributed to reviewing and revising national AMR strategic plans, action plans, guidelines, and standard operating procedures (SOPs) in several countries in FY 2021 Q2, working closely with in-country stakeholders. In **Kenya**, IDDS met with the MOH, the NASIC, and the United States Agency for International Development (USAID)-funded University of Nairobi's Health IT project to strategize on how to package IDDS-developed AMR surveillance materials so they can be accessible through the MOH's e-learning platform. In **Senegal**, IDDS developed national SOPs, training materials, and tools for AMR surveillance, which the MOH then validated. In two countries, **Liberia** and **Madagascar**, IDDS support related to conducting a biannual laboratory review meeting with counties and stakeholders and providing financial support to organize meetings of a steering committee. IDDS continued its support to improve quality control and quality assurance by providing in-person mentorship in **Kenya** and **Liberia** when testing AMR specimens.

IDDS supported facilities to **improve their testing capacity for AMR and priority pathogens** with a broad range of activities conducted across seven countries in FY 2021 Q2. For example, IDDS supported procurement of essential equipment and supplies for testing in **Cameroon**, **Liberia**, **Madagascar**, and **Senegal**. In **Liberia**, IDDS enabled the distribution and installation of equipment and procured essential reagents to initiate bacteriology at three hospital laboratories. IDDS-supported trainings focused on use of equipment, bacteriology, and AMR detection, and IDDS developed SOPs for equipment maintenance in **Kenya** and for the detection of priority AMR pathogens in **Cameroon**. In **Liberia**, IDDS completed refurbishment of G.W. Harley Hospital to provide bacteriology testing and AMR surveillance, and facilitated a ceremony to hand over the facility to the MOH.

Table 2: Project outputs related to pathogen and AMR testing capacity for FY 2021 Q2 and the countries that contributed to these outputs

GHS IR 1.3: Capacity to detect priority pathogens and AMR improved							
	TOTAL	Testing	AMR				
People Trained	33	9	24				
SOPS, Plans, and Guidelines Developed, Revised, or Disseminated	42	0	42				
TWG Group Meetings Held	6	3	3				
Supervisory Visits	7	1	6				
Items Procured <sup>1</sup>	7,930	170	7,760				
Pilots Conducted	0	0	0				
Assessment Reports Completed	0	0	0				
Countries <sup>2</sup>							
Burkina							
Cameroon			•				
DRC		•					
Indonesia EPT							
Kenya			•				
Liberia		•	•				
Madagascar							
Mali							
Senegal			•				
Tanzania		•	•				
Thailand EPT							

GHS IR 1.3: Capacity to detect priority pathogens and AMR improved							
TOTAL Testing AMR							
Uganda							
Vietnam							

<sup>&</sup>lt;sup>1</sup> Items procured include equipment, supplies, or reagents for either diagnostic or surveillance activities, as per the approved work plan. Items can also include laptops, printers, or modems, they but do not include routine administrative materials (e.g., office supplies).

#### **Strengthening National Surveillance Systems**

IDDS is working to strengthen national surveillance systems at all levels of the health system in countries in which it is operating. By bolstering comprehensive surveillance and response systems, where surveillance and laboratory data and human and animal health surveillance systems are integrated, IDDS aims to support countries to more quickly and effectively detect events of significance for public health, animal health, and health security.

In FY 2021 Q2, IDDS supported countries to strengthen indicator-based surveillance, event-based surveillance (EBS), and community-based surveillance (CBS); strengthen AMR surveillance; and strengthen interoperability between human and animal health and health security information systems.

#### Identifying and addressing gaps in surveillance systems (IR 2.1)

IDDS conducted a series of activities across countries in FY2021 Q2 related to understanding the current landscape of indicator-based surveillance, EBS, and CBS, and related to addressing identified gaps through capacity building and technical assistance. A primary set of activities involved **understanding system functioning**, capacity gaps, coordination mechanisms, and strategic plans. In some cases, the quality of the surveillance system was also assessed at the national and subnational levels. Of note, IDDS supported the evaluation of the national public health surveillance system in **Madagascar**, collecting data from 75 facilities across all levels of the health system. Results from the evaluation were presented to in-country stakeholders during a workshop in February.

IDDS also **conducted capacity building and provided technical assistance** to strengthen surveillance in FY 2021 Q2. In **Madagascar** and **Mali**, IDDS teams provided technical and financial support to conduct data reviews and develop surveillance bulletins that were distributed to districts through e-mail in Madagascar and through District Health Information Software, version 2 (DHIS2) in Mali. IDDS contributed to strengthening and institutionalizing supportive supervision in **Mali** and **Senegal**. In **Mali**, IDDS conducted post-training supervision visits with community health centers and community health worker sites to augment CBS activities and provided technical and financial support for integrated disease surveillance and reporting. In **Senegal**, IDDS used supportive supervision at the district level and held training workshops across 10 health districts. IDDS worked extensively in **Vietnam** to develop communications materials for the community to increase awareness of selected EBS signals of disease outbreaks and public health events of concern and strengthen community-based reporting into the health system. IDDS also built capacity in **Vietnam** related to EBS across both the human health and animal health sectors.

<sup>&</sup>lt;sup>2</sup> Countries listed are those that contributed to specific outputs this Q2. Countries that are working toward, but have not achieved, an output are not included.

Table 3: Project outputs related to strengthening surveillance systems for FY 2021 Q2 and the countries that contributed to these outputs

Result area: GHS IR 2.1: Gaps in co	re functions of s	urveillance systen	ns identified and esse	ential activities
supported				
	TOTAL	Data Quality	Data Analysis and Use	Other Surveillance Topic <sup>3</sup>
People Trained	X	0	15	1127
SOPS, Plans, and Guidelines Developed, Revised, or Disseminated	4	1	2	1
TWG Group Meetings Held	5	2	1	2
Supervisory Visits	5	3	0	2
Items Procured <sup>1</sup>	430	0	0	430
Pilots Conducted	2	1	0	1
Assessment Reports Completed	2	1	0	1
Countries <sup>2</sup>				
Burkina			•	•
Cameroon			•	•
DRC				
Indonesia EPT				•
Kenya		•	•	
Liberia				
Madagascar				
Mali				•
Senegal		•		
Tanzania				
Thailand EPT				
Uganda		•		•
Vietnam				•

<sup>&</sup>lt;sup>1</sup> Items procured include equipment, supplies, or reagents for surveillance activities, as per the approved work plan. Items can also include laptops, printers, or modems, but they do not include routine administrative materials (e.g., office supplies).

# Improving interoperability and interconnectedness across national disease reporting systems (IR 2.2)

To strengthen surveillance systems, IDDS worked toward **interoperability across national disease reporting systems.** In FY2021 Q2, IDDS bolstered national coordinating mechanisms, developed interoperability multiyear roadmaps, and provided substantial support to build capacity and provide technical assistance to integrate information systems across sectors.

For two countries, IDDS provided support to **strengthen or expand existing coordination mechanisms** across sectors. In **Indonesia**, IDDS conducted a virtual coordination meeting in March, attended by the Coordinating Ministry for Human Development and Cultural Affairs, MOH, Ministry of Agriculture, Ministry of Environment and Forestry, World Health Organization (WHO), and Food and Agriculture Organization of the United Nations (FAO), to finalize the draft of the Decree for the Cross-Sectoral

<sup>&</sup>lt;sup>2</sup> Countries listed are those that contributed to specific outputs this Q2. Countries that are working toward, but have not achieved, an output are not included.

<sup>3</sup> For FY 2021 Q2 People trained and items procured all correspond to Vietnam events-based surveillance activities.

Coordination Working Group. In **Burkina Faso**, IDDS supported the development of a plan and training materials for EBS extension, developed a One Health documentation library, and supported the functioning of the One Health Multisectoral Coordination platform.

Support for national-level interoperability roadmaps was also a mandate for IDDS in FY 2021 Q2 across three countries. In Indonesia, IDDS coordinated and funded a preparatory coordination meeting to develop a System for Zoonotic and Emerging Infectious Disease (SIZE) Roadmap for the country; 62 participants across multiple cross-sector ministerial bodies attended. In Uganda, IDDS reviewed and finalized the Strategy for Coordinated and Integrated Surveillance for Priority Zoonotic Diseases at a workshop attended by diverse range of human health and animal health stakeholders. In Kenya, IDDS completed a draft surveillance interoperability roadmap that is currently undergoing review.

IDDS also focused on building capacity and providing technical assistance to develop linkages across sectors. IDDS worked extensively with in-country stakeholders to coordinate and facilitate workshops and document outputs; and developed a series of training materials, tools, and guidelines to strengthen surveillance across a number of countries. In **Indonesia**, IDDS held an online seminar to raise awareness of the zoonotic Nipah virus disease that is transmitted by bats and pigs and highlight its impact on the country. IDDS also finalized the 4-Way Linking workshop report. In **Mali**, IDDS held a workshop to identify gaps in real-time surveillance and developed an action plan and report on the outcomes. In **Vietnam**, IDDS consulted with stakeholders through a workshop to increase capacity and use of the Vietnam Animal Health Information System. In terms of technical assistance, IDDS provided monthly supportive supervision in **Mali**, completed development of guidelines and a tool for routine data quality assessments in animal health surveillance sites in **Uganda**, and drafted a general systems requirements checklist that can be used at any AMR surveillance site in **Kenya** that seeks to install a laboratory information system. In **Uganda**, IDDS formally presented an Excel-based data collection system to ministerial stakeholders, which led to the review of the current paper-based system used at the regional level to report on priority zoonotic diseases.

Table 4: Project outputs related to interoperability and reporting for FY 2021 Q2 and the countries that contributed to these outputs

GHS IR 2.2: Interoperability and interconnectedness across national disease reporting systems improved							
	TOTAL	Interoperability	Electronic Reporting				
People Trained	153	0	153				
SOPS, Plans, and Guidelines	1	1	0				
Developed, Revised, or Disseminated							
TWG Group Meetings Held	3	1	2				
Supervisory Visits	0	0	0				
Items Procured <sup>1</sup>	6	0	6				
Pilots Conducted	2	0	2				
Assessment Reports Completed	0	0	0				
Countries <sup>2</sup>							
Burkina							
Cameroon			•				
DRC							
Indonesia EPT			•				
Kenya							
Liberia	<u>-</u>						

GHS IR 2.2: Interoperability and interconnectedness across national disease reporting systems improved						
	TOTAL	Interoperability	Electronic Reporting			
Madagascar						
Mali						
Senegal			•			
Tanzania						
Thailand EPT						
Uganda		•	•			
Vietnam			•			

<sup>&</sup>lt;sup>1</sup> Items procured include equipment, supplies, or reagents for either diagnostic or surveillance activities, as per the approved work plan. Items can also include laptops, printers, or modems, but they do not include routine administrative materials (e.g., office supplies).

<sup>&</sup>lt;sup>2</sup> Countries listed are those that contributed to specific outputs this Q2. Countries that are working toward, but have not achieved, an output are not included.

Improving capacity to conduct surveillance of priority pathogens and AMR (IR 2.3) IDDS worked across five countries in FY2021 Q2 to build capacity to strengthen surveillance. To do this, IDDS reviewed and revised national AMR strategic plans, developed and implemented action plans for AMR surveillance, built capacity of AMR sentinel surveillance sites, and, in one case, bolstered the AMR reporting system. IDDS support spanned technical assistance, procurement, and fostering linkages among crucial stakeholders.

IDDS **strengthened the national AMR strategy** in **Madagascar**, where the team financed and provided technical inputs at a workshop that contributed to finalizing the National Surveillance Strategic Plan, and in **Senegal**, where the team developed and finalized training materials and tools for AMR surveillance. IDDS also implemented action plans related to AMR surveillance in **Cameroon** and **Tanzania**. In **Cameroon**, IDDS procured computers to support the upcoming AMR surveillance pilot study, to enhance AMR data collection, analysis, and reporting to the WHO Global Antimicrobial Resistance Surveillance System, and to establish an AMR data warehouse to act as the national coordination center for AMR surveillance at the NPHL. In **Tanzania**, IDDS developed a supportive supervision checklist for use at laboratories to assess capacity for AMR surveillance; created links with a sheep's blood supplier to procure blood, critical for AMR laboratories; and assisted the NPHL to identify missing priority pathogen standard strains that IDDS could help to procure.

In FY 2021 Q2, IDDS also directly **built capacity of AMR sentinel surveillance sites** by training laboratory managers, heads of microbiology, and antimicrobial stewardship coordinators on analyzing AMR data in **Kenya** and conducting data quality audits. Also in **Kenya**, IDDS also developed a data sharing guide for AMR surveillance, drafted a template for quarterly AMR surveillance bulletins, and provided technical assistance on converting and improving internal AMR surveillance dashboards to be public facing with capability to receive feedback. IDDS built similar capacity in **Tanzania**, focusing on supportive supervision checklists and generating good quality data for wound site AMR surveillance. IDDS also created data quality improvement plans, including distribution of a standardized reporting template to laboratories to improve overall capacity and quality reporting for priority pathogens and AMR surveillance.



#### **TUBERCULOSIS**

#### **Strengthening National Diagnostic Networks**

Through core USAID funding and field funding from USAID missions, IDDS aims to strengthen TB diagnostic networks as part of a strong health system, build diagnostic capacity for early TB; drug resistant (DR)- and multi-drug resistant (MDR)-TB case detection, and enhance capacities of national and regional reference laboratories in countries where IDDS operates.

In FY 2021 Q2, IDDS operationalized this objective across focus countries by identifying and addressing gaps in TB diagnostic networks, boosting national and regional TB and MDR-TB case detection and notification capacities, and strengthening linkages across essential stakeholders to support effective management of the diagnostic network.

Identifying and addressing gaps in diagnostic networks (IR I.I TB)

To address gaps in existing diagnostic networks, IDDS conducted a range of activities in FY 2021 Q2 including planning for TB Diagnostic Network Assessments (DNAs), conducting TB laboratory spatial analysis, strengthening TB specimen referral systems, expanding the use of GeneXpert, strengthening leadership and management of the TB diagnostic network, expanding TB diagnostic connectivity solutions, and engaging with the private sector.

Through **core TB** funding, IDDS finalized the web and mobile version of the TB NET tool to facilitate data entry and simplify data management for TB DNAs. In **Burma**, IDDS collected facility-level data for nine essential components of the TB DNA to support analysis of laboratory network coverage and accessibility and allow for spatial analysis, as part of pre-assessment activities. In **Vietnam**, IDDS revised the already conducted TB DNA report to disaggregate analysis by National TB Program (NTP) facilities and non-NTP facilities.

IDDS worked to **strengthen TB specimen referral systems** in several countries in FY 2021 Q2, working closely with in-country stakeholders. In **India**, IDDS met with the Central TB Division (CTD) to share findings from the situational analysis conducted at national and intermediate reference laboratories and discuss plans to develop a comprehensive and holistic framework for strengthening the TB diagnostics care cascade within the national laboratory system. In **Vietnam**, IDDS consulted with stakeholders to understand the existing TB specimen referral system and how it could be integrated with the enhanced model being developed as part of GHS activities in the country. In **Zimbabwe**, IDDS developed a master list with Global Positioning System coordinates of all health facilities providing TB services; this list will be used to develop specimen transport system routing schedules.

IDDS supported efforts to **expand the use of TB diagnostics** through trainings, supportive supervision, operation research, and technical assistance. IDDS conducted trainings in **Bangladesh** for laboratory staff on line probe assay (LPA) which enabled the Sylhet biosafety level (BSL)-3 Laboratory to initiate LPA testing for second-line TB drugs. IDDS collaborated with stakeholders in **Tanzania** as part of the Tuberculosis Laboratory Technical Working Group (TWG) to discuss implementation and challenges of the zonal laboratories program, including review of associated performance indicators. IDDS also met with the Central Tuberculosis Reference Laboratory on restarting the external quality assurance (EQA) program, including an additional 220 sites. In **Vietnam**, IDDS finalized a report for a pilot on stool testing using GeneXpert. In **Zimbabwe**, with Core TB funding, IDDS implemented Driving Xpert Optimization,

which will help track Xpert key performance data and turnaround times from specimen collection to return of results to clinicians from data provided from laboratory and clinical services.

IDDS continued to **build governance and management capacity** for the TB diagnostic network. As part of an IDDS-organized stakeholder workshop in **Bangladesh**, IDDS reviewed and revised the draft TB laboratory strategy with partners and shared the strategy with the NTP for feedback. In **Zimbabwe**, IDDS provided coordination and technical support to review and virtually lead the revision of the National Health Laboratory Strategic Plan (2022-2026) with a broad range of stakeholders. In **India**, IDDS reinforced management capacity in national and intermediate reference laboratories to lead the laboratory diagnostic network by reviewing existing supervisory checklists, reporting, and indicators and discussing how to strengthen these processes. IDDS also visited TB laboratories at different levels of the health system to provide recommendations to strengthen diagnostic activities, streamline laboratory processes, and address gaps in roles and responsibilities.

Expanding TB diagnostic connectivity solutions is also a mandate under many of the IDDS country programs. In Cambodia, IDDS began to draft an implementation and human resource plan for establishing diagnostic connectivity and worked with the Center for Tuberculosis and Leprosy Control (CENAT) to specify customizations required for the DataToCare system. In Tanzania, IDDS extended its contract with SystemOne for technical assistance on GxAlert connectivity and together they trained superusers who can monitor and troubleshoot TB data from 213 surveillance sites and input them into a central dashboard at the National TB and Leprosy Program. IDDS also visited laboratories in Zimbabwe to train laboratory staff on how to maintain and troubleshoot GeneXpert machines, including troubleshooting non-reporting devices, swapping routers on devices with poor network connection, installing updated GxConnect software, and installing new routers and software in laboratories with connectivity challenges. IDDS also implemented a Driving Xpert Optimization intervention to strengthen Zimbabwe's GeneXpert network. A report with details on the contract with SystemOne and outcomes from year one of the intervention was also completed.

In FY 2021 Q2, IDDS **engaged with the private sector** in two focal countries to continue to address gaps within national TB diagnostic networks. In **India**, IDDS met with the CTD and the laboratory team to discuss a model for private sector engagement, out of which arose a one-stop diagnostic solution model to engage with private sector laboratories. The model was shared with the CTD, which provided feedback. The revised version has also been shared with USAID's flagship TB program in **India**, iDEFEAT TB, and private sector partner IQVIA for inputs and to plan for a consultative workshop. IDDS also held consultative meetings with artificial intelligence vendors and users in **Vietnam** to understand user requirements of various software that could adapt a Double-X algorithm to incorporate artificial intelligence reading of X-rays and expand use of the algorithm in the private sector.

Table 5: Project outputs related to TB diagnostic network strengthening for FY 2021 Q2 and the countries that contributed to these outputs

	TOTAL	Equipment	Commodity	QMS	Specimen	Biosafety	Electronic	Other
		Maintenance	Management		Referral		Reporting	Diagnostic
								Network
								Topics
People Trained	0	0	0	0	0	0	0	0
SOPS, Plans, and	1	0	0		0	0	0	1
Guidelines								
Developed,								
Revised, or								
Disseminated								
TWG Group	4	0	0	0	1	0	0	3
Meetings Held								
Supervisory	0	0	0	0	0	0	41	0
Visits								
Items Procured <sup>1</sup>	1	0	0	0	0	0	0	1
Pilots	0	0	0	0	0	0	0	0
Conducted								
Assessment	1	0	0	0	0	0	0	1
Reports								
Completed								
Bangladesh								•
Burma								
Cambodia								
DRC								
India								•
Tanzania								
Vietnam					•			•
Zimbabwe							•	

<sup>&</sup>lt;sup>1</sup> Items procured include equipment, supplies, or reagents for either diagnostic or surveillance activities, as per the approved work plan. Items can also include laptops, printers, or modems, but they do not include routine administrative materials (e.g., office supplies).

#### Improving capacity to detect TB, DR-TB, and MDR-TB (IR 1.3 TB)

During this quarter IDDS improved capacity to detect TB, DR)-TB, and MDR-TB by providing **technical assistance to introduce new TB diagnostic tools**, building diagnostic capacity of laboratory staff, and increasing access to quality chest X-rays. IDDS is facilitating the introduction of Truenat, a new diagnostic tool used to detect TB and DR-TB in decentralized facilities. In **Bangladesh**, IDDS planned a pilot of Truenat, working with USAID through its introducing New Tools Project (iNTP) under the STOP TB Partnership to obtain 14 Uno (one chip) and 24 Duo (two-chip) Truenat instruments and other consumables for the pilot. IDDS also designed a second pilot in **Bangladesh** for use of Xpert MTB/XDR, which would detect resistance to six drugs used for TB treatment in a single test. In **Cambodia**, IDDS worked with CENAT to obtain documentation to enable import of instruments and reagents for Truenat, and is developing the pilot protocol in the country. In **India**, IDDS expanded the scope of proposed

research on Truenat following meetings with the CTD and its laboratory team and has shared the revised research proposal with the CTD laboratory team for additional input. In **Zimbabwe**, IDDS developed draft scopes for operational research on interpretation of "Trace" results from GeneXpert MTB/RIF Ultra.

Improving TB diagnostic capacity of laboratory staff remained an IDDS priority in FY 2021 Q2, and through close collaboration with stakeholders, IDDS developed training materials and curricula, conducted site assessments, mentored staff, and helped troubleshoot problems. In Bangladesh, IDDS developed a curriculum on preventative maintenance of TB equipment for the NTP, is developing training materials on QMS, and developed an e-module on biosecurity and biosafety as part of Develop, an e-learning platform for TB laboratory capacity building. IDDS also completed a site assessment and inventory of TB equipment at the Khulna Regional TB reference laboratory to support expansion into use of liquid culture for drug susceptibility testing (DST) and LPAs, manually collected GX use data for the Rajshahi and Sylhet divisions, and identified Vietnam as a model for building a GX EQA program in the country. In Burma, the IDDS senior TB diagnostic specialist worked virtually with key technical staff from BSL-3 laboratories to develop action plans to support the national TB reference laboratory (NTRL) and is working to prepare an SOP for DST of second-line TB drugs. IDDS also developed a chapter on infection control at subnational facilities that will be included as part of the national infection control guidelines following review by the NTP. Capacity building in India was centered on technical assistance to assess the preparedness and understanding of factors hindering initiation of liquid culture services at the TB Culture and DST Laboratory, providing guidance and training to resolve onsite issues for liquid culture and DST, and providing recommendations on key technical, operational, and administrative issues to improve functioning of two intermediate reference laboratories in Patna. In Zimbabwe, the IDDS diagnostic specialist, who is embedded in the NTRL, has been mentoring staff to prepare the laboratory to serve as the leading institution in the TB diagnostic network and reviewing all clinical results before they are dispatched to clinics. IDDS also provided technical assistance to the NTRL staff to prepare GeneXpert PT panels for quarterly distribution within the TB diagnostic network. IDDS is part of a Ministry of Health and Child Care TWG that continued to monitor preparations for installation of a modular or containerized laboratory that will be a stopgap measure while the main Bulawayo NTRL is renovated. In Burma, IDDS worked to increase access to quality chest X-rays and finalized a chest X-ray training curriculum.

Table 6: Project outputs related to TB testing capacity for FY 2021 Q2 and the countries that contributed to these outputs

TB 1.3: Capacity to detect TB and DR-TB improved					
	Testing Procedures				
SOPS, Plans, and Guidelines Developed, Revised, or Disseminated	0				
TWG Group Meetings Held	2				
People Trained	8				
Supervisory Visits	5				
Items Procured <sup>1</sup>	0				
Pilots Conducted	0				
Assessment Reports Completed	0				
Countries <sup>2</sup>					
Bangladesh	•				
Burma					

TB 1.3: Capacity to detect TB and DR-TB improved		
	Testing Procedures	
Cambodia		
DRC		
India	•	
Tanzania	•	
Vietnam	•	
Zimbabwe		

<sup>&</sup>lt;sup>1</sup> Items procured include equipment, supplies, or reagents for either diagnostic or surveillance activities, as per the approved work plan. Items can also include laptops, printers, or modems, but they do not include routine administrative materials (e.g., office supplies).

#### COVID-19

IDDS partnered with the U.S. Government to respond to the COVID-19 pandemic to increase country capacity to transport and test COVID-19 specimens. In FY 2021 Q2, IDDS supported countries in COVID-19 specimen collection and transport-related activities, training and technical assistance, procurement of essential equipment and supplies, and EQA.

#### Specimen collection and transport

Additional funding in the **Philippines** enabled the IDDS team to meet with Department of Health regional officers and local government units to plan for and coordinate specimen transport activities in three additional provinces: Bulacan (Region III), Rizal (Region IVA), and Palawan (Region IVB). IDDS also tapped into the Shell Philippines transport mechanism, which airlifts specimens in partnership with the local government unit of Palawan.

#### Training and technical assistance

In **Indonesia**, IDDS finalized a video to showcase the impact of USAID COVID-19 funding through the IDDS project and finalized a series of training videos on how to enter COVID-19 test results into the data management system maintained by provincial offices. The MOH approved the training videos in March. In the **Philippines**, IDDS met with the local government units to plan for trainings on specimen collection and is finalizing participants.

#### **Procurement**

IDDS procured key testing commodities for several countries in FY 2021 Q2. This included procurement of priority commodities in **Indonesia** that support human health laboratories to conduct COVID-19 polymerase chain reaction (PCR) testing. In **Senegal**, IDDS used remaining funds to procure a biosafety cabinet class II for the Louga Regional Hospital. IDDS also delivered previously procured commodities to the Louga Regional Hospital and the Ouakam Health Center in Dakar. In **Tanzania**, IDDS delivered previously procured items, which included triple packaging and its outer carriage, pipettes, viral transport media (VTM), swabs, COVID-19 sanitary items (powder free gloves, waste bins, handwashing soap, soap dispensers, sharp containers), desktop computers, and printers, to the 16 regions at the border and the NPHLs. Coordinating closely with the Department of Medical Science in **Thailand**, IDDS procured and delivered commodities necessitated by the recent COVID-19 surge on the Thailand-Burma border. In **Vietnam**, IDDS completed delivery of specimen swabs and VTM to the NTP and using remaining funds, began procurement of high-priority commodities.

#### **EQA**

IDDS support in **Vietnam** included the creation of a SARS-CoV-2 retesting program in January that became part of the EQA strategy.



#### **GHS SUPPORT TO EBOLA VIRUS DISEASE**

In FY 2021 Q2, IDDS received supplemental GHS funding to support a response to Ebola Virus Disease (EVD). IDDS submitted five work plans; work plans in DRC, Guinea, and Senegal were approved. Countries require a functional diagnostic network with an effective and efficient specimen and referral transport system to support an emergency response to EVD. IDDS began planning for and implementing EVD diagnostic strengthening activities that included specimen integrity, transportation, and tracking, and improving diagnostic capacity, including through procurement and laboratory mapping assessments.

#### Specimen transport referral and tracking system

IDDS supported specimen transport in **DRC** by contracting two vehicles to transport EVD specimens in Butembo and nearby health zones and supporting local stakeholders, such as the *Institut National de Recherche Biomédicale* (INRB, or National Institute for Biomedical Research) to distribute EVD diagnostic commodities and dispose of used cartridges. IDDS also developed SOPs to support monitoring and tracking of EVD specimen location, integrity, quality, and results in **Guinea**, and had the SOPs validated by the laboratory technical working group.

#### Diagnostic training and technical assistance

In **Guinea**, IDDS provided five sets of trainings in biosafety and biosecurity in Kindia and Nzérékoré using materials developed by the *Direction Nationale des Laboratoires* (DNL).

#### **Xpert Ebola assay quality assurance**

Ensuring high-quality testing is a priority for IDDS in supporting the response to EVD. To this end, IDDS developed a quality assurance plan in **Guinea** for GeneXpert Ebola assay for the laboratory in Nzérékoré.

#### Information management systems

A health management information system (HMIS) that can capture EVD epidemic data rapidly and accurately is paramount to the EVD response. In **Guinea**, IDDS developed terms of reference for a consultant who will help configure the existing HMIS to integrate key laboratory variables and indicators relevant to EVD data. IDDS also procured tablets and computers for the National Health Security Agency (*Agence Nationale de Securité Sanitaire*) and the DNL.

#### **Procurement**

Procurement of essential equipment and supplies is an integral aspect of strengthening laboratory diagnostic capacity for EVD. In **DRC**, IDDS received a list of priority laboratory commodities from the Provincial Health Division and INRB and began procurement of these items. For both **DRC** and **Guinea**, IDDS began procurement of 1,000 GeneXpert cartridges from Cepheid for each country. In **Guinea**, IDDS also placed an order for 50 cooler boxes.

#### **Implementation Status**

Work plans and deliverables submitted in FY 2021 Q2 are summarized in the tables that follow.

Work Plans Submitted and Approved in FY 2021 Q2

TTOIK	Work Halls Sabiliteed and Approved III 1 2021 Q2			
	Submitted/Resubmitted	Received USAID Approval		
GHS	DRC (NTW-1), Guinea, Liberia	DRC (pending updated monitoring and evaluation [M&E] plan), Guinea, Indonesia, Liberia (except NTW-3.1)		
ТВ	Cambodia, Vietnam, Tanzania, Burma (amendment of work plans), Core TB	Cambodia, Vietnam, Tanzania (with contingencies)		
C-19F	Philippines	Philippines		
EVD	DRC, Guinea, Senegal, Liberia, Mali	DRC, Guinea, Senegal		

#### **Deliverables Submitted in FY 2021 Q2**

	QASP Deliverables Submitted to USAID during Q2
Core TB	2
ТВ	6
GHS	19
C-19F	31
Total	58

## **CURRENT AND CUMULATIVE WORKPLAN PROGRESS**

## **GHS FY 2021 Q2 Achievements**

## **BURKINA FASO**

## **Quarterly Highlights**

#### **Diagnostic Highlights:**

- Developed guides, SOPs, and training modules for the specimen referral and transport system to build capacity for biosafety. IDDS also developed an integrated transport and referral system for One Health samples (human and animal) and developed a costed recommendation report for a comprehensive One Health specimen referral and transport system inclusive of AMR.
- Finalized two reports this quarter: a report on agreed-on improvements for a One Health specimen
  referral and transport system, the costed recommendation report for a comprehensive One Health
  specimen referral and transport system inclusive of AMR,
- Finalized draft comprehensive specimen referral and transport system guidance documents that were prepared with counterparts.

#### **Surveillance Highlights:**

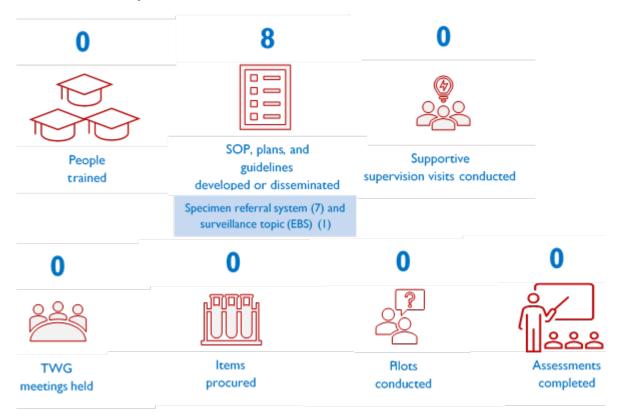
- All 19 IDDS-supported sites were reporting surveillance data electronically in FY 2021 Q2, up from only 3 sites at the end of FY 2020.
- Developed an EBS expansion plan, training materials, and tools to guide integration between the
  Ministry of Agriculture and the Ministries of Health, Environment, and Animal and Fisheries
  Resources and shift to One Health. IDDS and the surveillance focal points from the three ministries
  (Health, Environment, and Animal and Fisheries Resources) jointly conducted two supervision visits
  to the Centre Sud and Plateau Central regions to strengthen surveillance.
- IDDS provided technical assistance to develop the One Health documentation library with the content management system dupral.ci. This is the first time a location exists to store key documents that are easily accessible and can be sustainably managed by the country. The online library is available at https://burkinalib.iddsproject.org.

#### **Problems Encountered and Solutions**

Problem	Resolution	Lessons	Status
COVID-19 restrictions	The Antibiologie and Antibiotherapie	It is possible to adopt	In progress
delayed	course has been rescheduled from	remote technologies to	
implementation of the	February 2021 to November 2021.	enable partner	
Antibiologie and		collaboration and	
Antibiothérapie course		continue	
		implementation of	
		activities.	
Poor follow-up of EBS	The team now communicates with	Close collaboration	In progress
activities at regional	regional directors and field EBS focal	with field partners is	
and provincial levels	points through phone calls and joint	important and useful to	
	field visits with representatives from	ensure success in	

Problem	Resolution	Lessons	Status
	the three ministries to strengthen	implementing project	
	engagement, implementation, and	activities	
	accountability for activities.		
Lack of financial	The Ministry of Animal and Fisheries	It is important to find	In progress
resources for	Resources and the Ministry of	ways to regularly pay	
community-level	Environment are holding discussions	community health	
surveillance and	with community health workers to	workers while also	
sensitization activities	seek a resolution.	exploring alternative	
		financing options to	
		keep community health	
		workers engaged, such	
		as through transport	
		fees and meals.	

## **FY 2021 Q2 Output Results**



## **CAMEROON**

## **Quarterly Highlights**

#### **Diagnostic Highlights:**

- Strengthened laboratory staff capacities at sentinel surveillance sites through training and supervision on AMR detection. IDDS also harmonized national SOPs for detection of priority AMR pathogens.
- Procured laboratory reagents, consumables, and small equipment to support AMR detection and data management at the University Teaching Hospital Bacteriology Laboratory of Yaoundé and the National Veterinary Laboratory of Garoua (see photo below).



#### **Surveillance Highlights:**

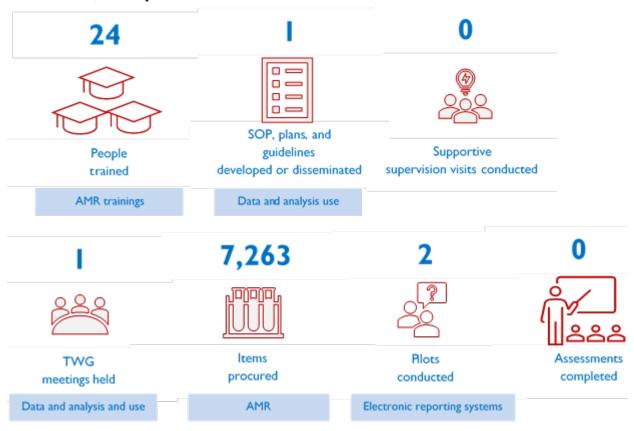
• Finalized the AMR surveillance plan this quarter, putting in place the first national strategy to guide AMR surveillance for the country.

- Supported implementation of pilot AMR surveillance in five sentinel sites, which is the first time the
  country has initiated operational AMR surveillance at sentinel sites. This is one of the steps within
  the national strategy to fight AMR.
- Supported the NPHL to establish and equip an AMR data warehouse to coordinate AMR surveillance data collection, analysis, interpretation, and reporting to the WHO Global Antimicrobial Resistance Surveillance System. IDDS also procured computers for data collection at the pilot AMR surveillance sentinel sites.

#### **Problems Encountered and Solutions**

Problem	Resolution	Lessons	Status
NPHL staff in charge of	IDDS continues to	Constant and close	In progress
coordinating AMR laboratory	communicate with NPHL and	communication is	
activities were unavailable	other partners to adjust	necessary to mitigate	
due to competing priorities	scheduled activities based on	delays due to the	
related to COVID-19. This	staff availability.	COVID-19 pandemic.	
delayed implementation for			
many planned activities this			
quarter.			

## **FY 2021 Q2 Output Results**



## DEMOCRATIC REPUBLIC OF THE CONGO

## **Quarterly Highlights**

 The third draft of the work plan was submitted on January 8, 2021 and received approval from USAID on January 26, 2021.

#### **Diagnostic Highlights:**

• Collaborated with the Provincial Division of North Kivu to map out public health laboratories, which included laboratories at the provincial level, general reference hospitals, and reference health centers in the health zones. Ten investigators were trained from February 1 to 3, 2021, on the protocol, developed by the African Society for Laboratory Medicine, and on how to use the laboratory mapping tool. Data collection in the field took place from February 4 to 17, 2021. A total of 68 laboratories were mapped, including 56 simple laboratories, 1 complex laboratory, and 11 medium laboratories. The final activity report highlights gaps and recommends steps to strengthen the provincial and national laboratory network to effectively meet diagnostic needs and strengthen disease surveillance.

#### **Problems Encountered and Solutions**

Problem	Resolution	Lessons	Status
Mapping in other provinces	The IDDS team continues to	Staff safety needs to	In progress
was delayed due to unsafe	monitor the security situation	be prioritized at all	
conditions.		times during our	
		intervention in eastern	
		DRC, where security is	
		a concern.	
Mapping was halted in other	IDDS will pursue this activity in	Careful planning and	In progress
provinces in March to	other targeted provinces (Ituri,	coordination can help	
prioritize support to the EVD	South Kivu, and Maniema) in	to meet activity goals.	
response.	May.		
African Society for	The MOH was conducting the	Working closely with	Addressed
Laboratory Medicine	training in Kinshasa, so an IDDS	in-country partners can	
facilitators were unable to	staff member participated in	lead to innovative	
travel to eastern DRC to train	the training and then trained	solutions.	
MOH staff on laboratory	MOH staff in eastern DRC, who		
mapping.	were to undertake the lab		
	mapping in North Kivu.		

## **FY 2021 Q2 Output Results**





People trained

Specimen referral system

0



SOP, plans, and guidelines developed or disseminated

0



Supportive supervision visits conducted





TWG meetings held





Items procured

0



Pilots conducted



Assessments completed

Laboratory mapping

## **GUINEA**

### **Quarterly Highlights**

- The second draft of the FY 2021 work plan was submitted to USAID on February 5, 2021 and approved February 8.
- USAID asked IDDS to pause the implementation of the approved GHS work plan and focus efforts on the EVD response that started in February 2021.
- At USAID's request, implementation of the remaining components of all surveillance activities has been dropped from the FY 2021 work plan.

#### **Success Story:**

**One Health National Agreements to Strengthen Collaboration in Guinea** (See Annex B for full story) *USAID's IDDS project is seeking to strengthen the surveillance and laboratory networks in Guinea using the One Health approach.* 

#### **Surveillance Highlights**

- Worked with the Agence Nationale de Sécurité Sanitaire and other stakeholders to support a review
  of existing CBS toolkits to formulate a standard, Agence Nationale de Sécurité Sanitaire-endorsed
  CBS toolkit.
- Completed technical review and finalized the Guinea CBS update report, which reports on key
  activities completed previously: an initial desk review; a workshop in Kindia to formulate best
  practices and tools for a standardized toolkit; TWG meetings to formalize national CBS best
  practices; a workshop in Dubreka to validate the revised and updated CBS training materials and
  tools; and an assessment of the pilot area, followed by a training of community health workers on
  CBS. The update report also details all the activities completed to prepare for the pilot. Its intended
  audience is USAID and any implementing partner or Guinea national agency that will continue CBS in
  the pilot areas.

#### **Problems Encountered and Solutions**

None

## **FY 2021 Q2 Output Results**

Because IDDS suspended its surveillance activities, M&E data were not collected for FY 2021 Q2.

## **INDONESIA**

## **Quarterly Highlights**

The FY 2021 work plan was approved on March 25, 2021.

#### **Success Story:**

#### IDDS Recognized for COVID-19 Response in Indonesia (See Annex B for full story)

USAID's IDDS project has received an award for "the excellent support to the Ministry of Health's COVID-19 testing program" by USAID in Indonesia.



#### **Surveillance Highlights:**

- Collaborated with the MOH, Ministry of Agriculture, and Ministry of Environment and Forestry, along with international partners, to raise awareness of the Nipah virus through an online seminar on February 6, 2021. The seminar communicated the risks associated with emerging infectious diseases, with a focus on the Nipah virus, and shared the virus's potential to impact Indonesia. The seminar was streamed on Zoom and YouTube, with 1,266 participants.
- Provided technical assistance the Technical Working Group on "Detection, Surveillance, and Response to Cross-Sectoral Zoonosis/ EIDs and AMR" to finalize five policy briefs, which were validated by the Director General of Disease Prevention and Control at the MOH and submitted to the Kemenko PMK this quarter. The policy briefs were on the following:
  - Establishment of cross-sector technical coordination sub-working groups
  - o Four-Way Linking Revitalization
  - Strengthening the One Health Laboratory Network
  - Development of Cross-sectoral Integrated Surveillance
  - Operationalization of SIZE
- Provided financial and coordination support to the Kemenko PMK to coordinate a meeting to develop the SIZE roadmap and receive specific inputs on informatic technology and regulatory aspects of the roadmap. Sixty-two participants attended the meeting, including the Coordinating

Ministry for Human Development and Cultural Affairs, MOH, Ministry of Agriculture, Ministry of Environment and Forestry, and Ministry of Communication and Information.

## **Problems Encountered and Solutions**

Problem	Resolution	Lessons	Status
Delays in work plan approval led to delays in implementation of some activities. The final work plan necessitated additional harmonization with the Government of Indonesia (GOI) fiscal year work plan	IDDS resumed activities and closely coordinated with the Gol and other international partners to disseminate and re-synchronize work plans with the Gol work plans and find efficiencies across partner budgets, particularly those related to One Health. New timelines have also meant an opportunity to plan national and subnational activities around the fasting month of Ramadan (April 13 to May 13, 2021).	IDDS must closely coordinate with partners to ensure that activities, especially those related to One Health, can resume rapidly and effectively when possible.	Addressed
The GoI was delayed in disseminating the five IDDS-supported policy briefs to relevant ministries beyond the initial cross-sector coordination meeting that was held in Q1 and the letter requesting the same, which was submitted to the MOH on January 18, 2021.	IDDS has made a plan with the Kemenko PMK to financially support and coordinate an online AMR meeting in April 2021, during which policy briefs will be disseminated to relevant ministries during the cross-sectoral coordination meeting.	IDDS worked with the highest echelon staff directly at the Kemenko PMK to accelerate implementation of follow-up activities related to dissemination of the policy brief package.	In progress
Handover of SIZE from FAO to the Ministry of Agriculture has been pending since September 2020. The Gol had requested IDDS support for this activity following transition, but this is likely to be further delayed. Delays in work plan approval also delayed the training of trainers on SIZE.	IDDS is collaborating with FAO and implementing partners through informal meetings to slowly transition activities while awaiting the official handover to the Ministry of Agriculture by FAO.	There needs to be intensive and regular communication to monitor progress and resolve existing problems.	In progress

## **FY 2021 Q2 Output Results**





People trained

0



SOP, plans, and guidelines developed or disseminated

0



Supportive supervision visits conducted

3



meetings held

Electronic reporting systems (1) and surveillance integration (2)

0



ltems procured

0



Pilots conducted



Assessments completed

## **KENYA**

## **Quarterly Highlights**

#### **Diagnostic Highlights:**

- Conducted sensitization meetings on AMR surveillance and microbiology pre-analytics as part of continuous medical education (CME) for 154 clinicians and other health professionals at 5 IDDS-supported hospitals: Bungoma County Referral Hospital, Malindi Sub-County Hospital, Murang'a County Referral Hospital, Nyeri Teaching and Referral Hospital, and Kitale County Referral Hospital. During the meetings, hospital microbiology laboratory teams showcased their capacity to conduct bacteriology testing and shared data on organism identification and antimicrobial susceptibility testing. The clinicians expressed enthusiasm for bacteriology testing following the meetings. The anticipated impact of the CME is that clinicians will refer more specimens to the microbiology laboratories for AMR testing, which has been a challenge in Kenya. IDDS will continue monitoring laboratory bacteriology services utilization to determine the impact of the CMEs.
- In FY 2021 Q2, all 5 laboratories supported by IDDS had the necessary cadre of staff to perform diagnostic test for their tier and were able to perform AST per their tier level (up from 0 at baseline in FY 2019), and all 5 laboratories are participating in QMS.

#### **Surveillance Highlights:**

- Performed a data quality audit (DQA) on March 15, 2021, at the five supported surveillance sites: Bungoma County Referral Hospital Laboratory, Malindi Sub-County Hospital Laboratory, Murang'a County Referral Hospital Laboratory, Nyeri Teaching and Referral Hospital Laboratory, and Kitale County Referral Hospital Laboratory. Participants included representatives from the surveillance sites, the NPHL, and the NASIC. The DQA helped sites identify barriers to generating and using data to inform decision-making at surveillance sites, and also to developing data quality improvement plans. This is the first time the country has ever implemented a DQA of AMR data.
- Provided technical and financial support to train 15 laboratory managers, heads of
  microbiology/bacteriology bench, and antimicrobial stewardship coordinators across the five sites
  on preparing and analyzing AMR surveillance data with the NPHL M&E team. Participants learned
  the need for high-quality data for decision-making; how to produce, collect, and use quality
  surveillance data; and practical skills, such as preparing basic descriptive statistics, drug-bug
  combinations, and charts displaying sensitivity patterns.

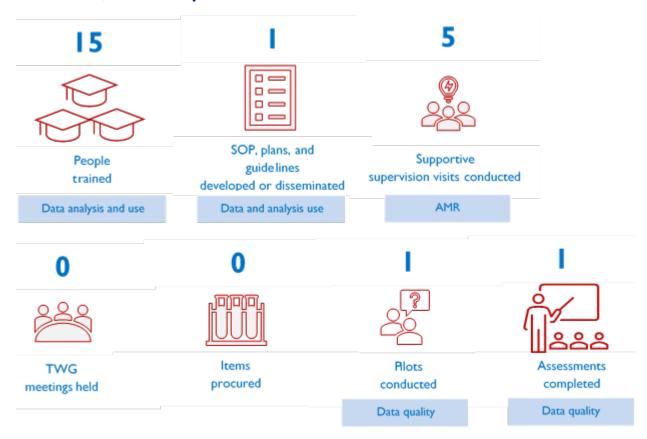
#### **Problems Encountered and Solutions**

Problem	Resolution	Lessons	Status
IDDS had planned to support	IDDS remains in close contact	Remain in close	In progress
training and mentoring of	with the NPHL, Nyeri County	contact with	
the Nyeri County Referral	Hospital Laboratory (where	stakeholders to ensure	
Hospital Laboratory team on	equipment will be installed),	rapid start of activity	
molecular testing techniques	and Abbott (which will install	when possible.	
after the molecular testing	the equipment). IDDS has		

Problem	Resolution	Lessons	Status
platform was installed by the	provided technical assistance		
NPHL. This activity had been	to the laboratory to complete		
carried over from FY 2020	all necessary pre-installation		
Q3 but cannot be completed	modifications. IDDS also		
until the molecular testing	developed training materials		
platform is installed by the	and SOPs for use of the		
NPHL. There is not currently	molecular platform to use for		
an installation date.	training laboratory staff after		
	the equipment is installed.		
	IDDS is on standby to resume		
	this activity following		
	equipment delivery.		
The National AMR	IDDS co-sponsored a five-day	Strategic partnership	In progress
Surveillance training,	workshop with the USAID-	and co-sponsorship of	
developed using IDDS	funded University of Nairobi	the training with the	
financial, technical, and	Health IT project to format the	USAID-funded Health	
logistical support in year	AMR surveillance training	IT project has helped	
one, was created to be a	materials into a form that is	IDDS reduce spending	
multi-day, in-person	compatible with the MOH	on this activity. IDDS	
training. However, to make	eLearning platform	also leveraged the	
the training more widely	specifications. IDDS is	existing relationship	
available, IDDS is	finalizing materials, audio, and	between the Health IT	
transitioning it to an online,	video so the materials can be	project and the MOH	
self-paced training in	submitted to the MOH	Division of Health	
FY 2021. The extensive	e-learning content vetting	Information System to	
training materials as initially	committee and be hosted on	quickly format	
developed were not	the academy. The unexpected	materials and obtain	
compatible with the MOH	benefit is that the training will	necessary approvals to	
online e-learning academy.	now be able to be accessed by	post online.	
	a wider audience, across		
	human and animal health		
	sectors, and contribute to		
	AMR prevention and		
	containment efforts in the		
	country.		
The Malindi surveillance site	IDDS met with the laboratory		In progress
is unable to pay	and county leadership to see		
accreditation fees due to the	whether a solution was		
expanded scope, which	possible. IDDS has planned a		
includes bacteriology	follow-on meeting with county		
services.	leadership, including the		
	county director of health		
Nyeri does not have enough	services, chief officer for		
resources to cover the	health services, and the		
increase in accreditation	hospital medical		
fees due to bacteriology	superintendent, in Q3, to find		
services now being part of	a solution to the lack of		

Problem	Resolution	Lessons	Status
its service package this year	financial resources. IDDS is		
and will only have	also exploring the possibility of		
accreditation for its	paying for accreditation of		
bacteriology services in the	bacteriology services if an		
next year.	alternative solution does not		
	present itself.		
IDDS has not yet identified a	IDDS is engaging with the		In progress
partner to implement	NASIC and other partners to		
WHONET in the country.	find a solution. IDDS used the		
This has led to a delay in	data analysis training to		
conducting the sensitizing,	highlight the potential benefit		
because the actual	WHONET would bring in		
implementation will require	simplifying the analysis for the		
the partner to carry out	sites. This was taken up		
activities.	seriously by the NASIC for		
	consideration. IDDS will		
	continue to advocate this,		
	including during the AMR		
	surveillance TWG meeting in		
	Q3.		
Prolonged industrial actions,	IDDS continued to focus on		Addressed
such as staff strikes,	the two sites that were not		
significantly affected	significantly affected but		
workload and testing	remained in touch with the		
volumes at the Kitale,	management of the other		
Bungoma, and Malindi	affected sites to track		
surveillance sites.	progress. IDDS began		
	providing technical assistance		
	as soon as the issue was		
ĺ	resolved.		

# FY 2021 Q2 and Output Results



## **LIBERIA**

### **Quarterly Highlights**

• The third submission of the FY 2021 work plan was submitted to USAID on January 15, 2021. Contingent approval was received on January 29, 2021.

#### **Success Stories:**

Liberia's G.W. Harley Hospital Laboratory Upgrade Completed and Ready for Expanded Testing (See Annex B for full story)

On April 2, USAID's Mission Director in Liberia, Sara Walter, officially handed over the newly renovated and equipped G.W. Harley Hospital laboratory to Liberia's Minister of Health, Dr. Wilhelmina Jallah.

**Building Bacteriology and Antimicrobial Susceptibility Testing in Liberia** (See Annex B for full story) *USAID's IDDS project is building the capacity for bacteriology testing in three county referral laboratories (Tellewoya in Lofa, Phebe in Bong, and G.W. Harley Hospital Laboratory in Nimba) in Liberia.* 



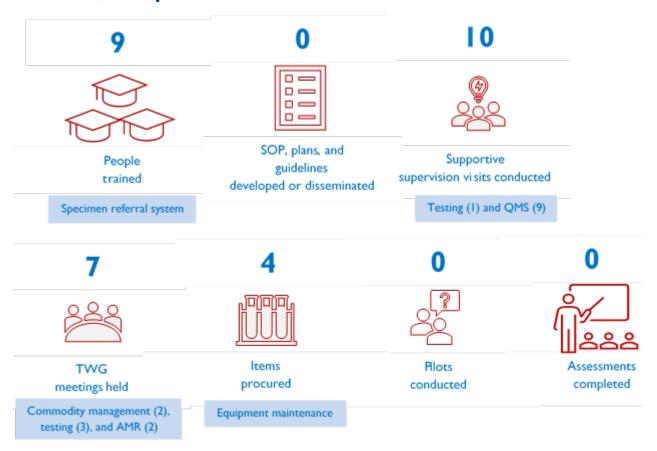
#### **Diagnostic Highlights:**

Renovated and equipped the G.W. Harley Hospital Laboratory in Nimba county this quarter. The
renovation enhanced laboratory diagnostic testing, including testing for priority pathogens and
AMR, and expanded the workspace to hold equipment needed to provide basic clinical tests,
including bacteriology. IDDS also supported the procurement of equipment (air conditioners),

- reagents, and commodities that will be used to provide general clinical tests at the G.W. Harley Hospital.
- Conducted the Stepwise Laboratory Quality Improvement Process Towards Accreditation audits on facilities enrolled in Strengthening Laboratory Management Towards Accreditation in the three IDDS-supported counties. These audits will ensure that the quality improvement plans are being followed in the county facilities. Six additional hospitals were enrolled in SLMTA based QMS implementation this quarter leading to a total of 9 sites participating in a quality management scheme.
- Initiated the distribution and installment of equipment (e.g., incubators, autoclaves, microscopes, distillers) based on the equipment procurement plan. IDDS also handed over equipment to Tellewoyan Hospital Laboratory in the presence of the county health team. This equipment will be used for the initiation of bacteriology at the facility.
- Conducted a nine-day training on bacteriology, in conjunction with the National Diagnostic Division
  and the National Public Health Reference Laboratory. Six laboratory technicians from Tellewoyan
  Hospital (Lofa), Phebe Hospital (Bong), and G.W. Harley Hospital (Nimba) and three IDDS diagnostic
  specialists were trained on basic bacterial culture and antimicrobial sensitivity testing. The training
  included both didactic and practical training sessions. The training of laboratory personnel working
  in microbiology laboratory is critical for quality diagnostic service.

Problem	Resolution	Lessons	Status
There was a delay in the	The IDDS team followed up with		Addressed
•	· ·		Audresseu
completion of the G.W.	the payments to make sure they		
Harley Laboratory	were in progress. After the		
renovations because there	payment was made, the vendor		
was a delay in the payment	completed the renovations.		
to the construction vendor.			
A prolonged work plan	Delays in approval of the work		Addressed, for Q2
approval process led to	plan resulted in delays in		only
delays in implementation.	implementation of activities,		
Due to funding constraints, a	which affected the project		
limited number of prioritized	deliverables and timelines.		
activities were approved in a			
mini work plan on			
January 29, 2021.			
Disruption of the global	IDDS closely followed up with		In progress
supply chain system due to	the suppliers. Bacteriology		
COVID-19 resulted in delays	testing began in March 2021 in		
in delivery of procured items	three sites (Linguere,		
by suppliers, which led to	Guediawaye, Tivaouane) after		
delays in implementing	the delay. All the sites now have		
bacteriology testing at three	SOPs in place, and two of them		
county hospital laboratories.	are part of a QMS program.		

# FY 2021 Q2 Output Results



# **MADAGASCAR**

### **Quarterly Highlights**

#### **Diagnostic Highlights:**

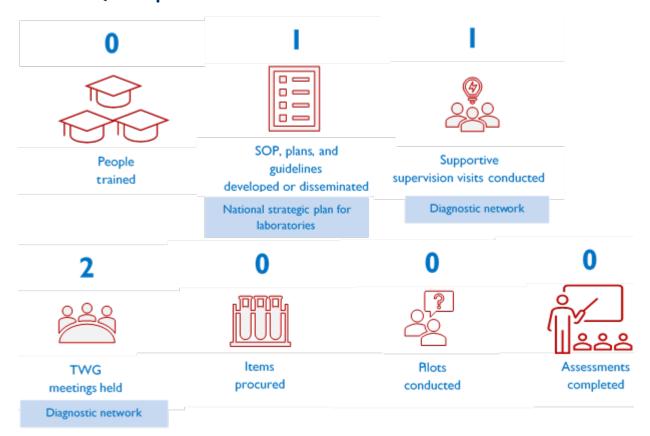
- IDDS supported the evaluation of the national public health surveillance system, which in FY 2021 Q2 included finalizing the evaluation protocol and field survey plans, pretesting the data collection tools, collecting and analyzing data, and collating the final evaluation report. The evaluation encompassed all levels of the health system, from the peripheral (district and community), central, and intermediate (regional health directorate) levels, to include 61 basic health centers, 4 reference biological surveillance centers, and 10 hospital centers. Results from the evaluation were presented to in-country stakeholders during a workshop in February
- Provided financial support to organize meetings with stakeholders (La Direction de la Pharmacie, des Laboratoires et de la Médecine Traditionnelle, Reseau des Laboratoires a Madagascar biologists) to support the development of the first draft of the strategic plan for laboratories (plan stratégique des laboratoires).
- Procured a PCR platform to be installed in the Mahajanga laboratory. IDDS will complete installation in the PZaGa University Hospital Center laboratory.

#### **Surveillance Highlights:**

- Implemented a broad surveillance system evaluation with key stakeholders and generated a technical report to document the findings.
- Reviewed and finalized the National Surveillance Strategic Plan.
- Provided technical and financial support for the elaboration of three monthly surveillance bulletins (#28, #29, and #30) and disseminated them to stakeholders via e-mail.

Problem	Resolution	Lessons	Status
IDDS had planned to support	The IDDS team is working with	Close collaboration	In progress
training for local laboratory	IDDS HQ and the PCR platform	with suppliers is	
staff in the Mahajanga region	provider to try to speed up the	important.	
to build testing capacity for	procedures.		
COVID-19 and other			
infectious diseases.			
However, this necessitates			
that the PCR platform be			
installed, and delayed			
procurement and import			
processes will shift activity			
timelines.			

# **FY 2021 Q2 Output Results**



# **MALI**

### **Quarterly Highlights**

#### **Diagnostic Highlights:**

- Supported the *Direction de la Pharmacie et du Medicament* to map 124 diagnostic facilities in the Kayes, Ségou, and Sikasso regions, which means that more than 80 percent of the country's diagnostics facilities have been mapped. This will help inform development of the regional diagnostic network and the regional specimen referral and transport system in IDDS-supported regions in line with WHO Benchmark 7.3: Effective national diagnostic network is in place.
- Conducted biosafety/biosecurity assessments at the Ségou regional hospital laboratory and the
  national public health institute laboratory, provided improvement plans, and offered onsite
  coaching to address the most pressing gaps. The national biosecurity/biosafety manual being
  developed will be a reference for implementing biosecurity/biosafety activities at diagnostics
  facilities in the country.

#### **Surveillance Highlights:**

- Conducted two rounds of post-training supervision visits in January 2021 in Kadiolo health district,
   Sikasso region, and one round of post-training supervision visits in March 2021 in Kati health district,
   Koulikoro region, to standardize CBS and implementation. The supervision visit in Kadiolo was
   combined with a pilot of the CBS toolkit. These steps will inform the CBS extension plan, for which a
   workshop is being planned in Q3.
- Conducted weekly surveillance data review through DHIS2 starting at the national level at the Direction Générale de la Santé et de L'Hygiene Publique on February 15, 2021, then in Sikasso on February 22, 2021, and in Ségou on March 30, 2021. The weekly review of surveillance data reported through DHIS2 gives the data manager at the national level and the two IDDS-supported regions (Ségou and Sikasso) the opportunity to provide feedback to staff at the health facility level on the data reported, allowing staff to correct the data on a weekly basis without waiting for the end of the month or quarter. The review also encourages data collectors to share surveillance data through DHIS2 instead of using only the Excel sheets.
- Provided financial and technical support to the *Direction Générale de la Santé et de L'Hygiene Publique* to produce a bulletin in January 2021.
- Developed an action plan and report on identified gaps in real-time surveillance information sharing.
  Gaps across all domains of interoperability were identified: governance and leadership (lack of
  strategic documents); human resources (lack of career plan, high rate of turnover); and technology
  (lack of documentation defining the role of different structures, no routine maintenance plan, lack
  of global back-up system in case of catastrophe). Findings from the report will serve as a reference
  for the government and partners to improve information sharing in Mali.

### **Problems Encountered and Solutions**

Problem	Resolution	Lessons	Status
IDDS had planned to conduct	IDDS has asked the Mission	Routine activities	In progress
onsite support to the INSP to	GHS advisor to hold joint	should be planned	
implement QMS activities,	meetings with INSP's Direction	such that virtual	
but these have been delayed	to discuss completion of QMS	facilitation is possible.	
due to COVID-19.	activities.		

## **FY 2021 Q2 Output Results**



# **SENEGAL**

### **Quarterly Highlights**

#### **Success Stories:**

Senegal's Guediawaye and Linguere Laboratories restart AMR detection and surveillance activities through support from IDDS (See Annex B for full story)

Drug-resistant strains of common diseases, known as antimicrobial resistance (AMR), threaten to undermine the huge progress that antibiotics have made in medical treatment.

IDDS Improves Priority Diseases Reporting in Senegal with Training for 234 Nurses and Midwives on DHIS2 (See Annex B for full story)

USAID's Infectious Disease Detection and Surveillance (IDDS) project trained 234 newly recruited nurses and midwives in the use of District Health Information Software, version 2 (DHIS2), from December 1, 2020, to March 25, 2021, in Senegal's Saint-Louis and Tambacounda regions.

#### **Diagnostic Highlights:**

- With IDDS support, national SOPs and tools for AMR surveillance were validated by the Directorate of Laboratories of the MOH.
- Provided technical assistance to the Directorate of Laboratories to develop and validate AMR training materials.
- To expand AMR detection, IDDS procured equipment, reagents, and supplies/consumables for the
  seven IDDS-supported diagnostic facilities undertaking AMR detection. Despite the memorandum of
  understanding (MOU) between IDDS and the Directorate of Laboratories still undergoing revisions,
  the Directorate of Laboratories gave permission for the project to procure these testing items in
  2021 and, as a result, three of the seven sites were able to resume antimicrobial susceptibility
  testing in March 2021. Two of these three sites are now also participating in a Quality Management
  Scheme. The four other facilities are now able to undertake AMR surveillance following IDDS
  support.
- All seven IDDS supported AMR sentinel sites now have the correct reagents for AST and none of them had any stock-outs of these reagents or supplies in last 90 days. This is an improvement from the end of FY 2020 when 0 of the 7 sites had an adequate commodity management system. To prevent future stock-outs, the seven labs are now charging small user fees to pay for and sustain a regular supply of reagents for AST.

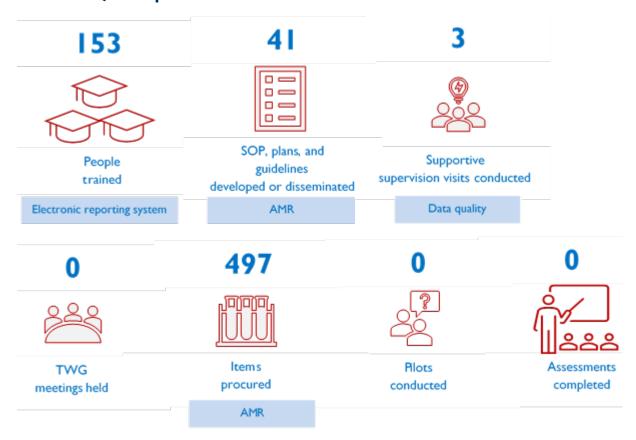
#### **Surveillance Highlights:**

Continued to roll-out training on DHIS2 reporting on routine surveillance data to six additional
health districts (Bakel, Kidira, Maka, Dagan, Richard Toll, and Saint-Louis) in Saint-Louis and
Tambacounda medical regions. In this quarter, 153 nurses and midwives from the 6 districts were
trained, bringing the total for the fiscal year to 246 nurses and midwives trained across 10 health
districts.

- Conducted supportive supervision sessions across 10 districts to evaluate the quality, including
  completeness and timeliness, of data reported into DHSI2 by Dagana, Richard Toll, and Saint-Louis
  health districts in Saint-Louis region. IDDS used the AMR-focused supportive supervision tool the
  project had developed during FY 2020, which had since been validated by the MOH Directorate of
  Laboratories. Based on the visit, gaps and training needs were identified and rectified. IDDS
  supported the facilities to implement recommendations and improve the quality of reported data.
- Six of twelve IDDS-supported health districts trained by IDDS submitted 281 reports this quarter on community-based surveillance (CBS) data in line with national guidelines and includes animal and human health data using a One Health approach. In 4 of the 6 health districts, 98 signals from community health volunteers were verified by the nurses and livestock agents whom IDDS trained in CBS.
- Supported two data review meetings in January 2021 in the Tambacounda and St. Louis regions to review and analyze routine surveillance data generated from heath districts on priority diseases from the prior quarter (October–December 2020).

Problem	Resolution	Lessons	Status
The Directorate of	All the workshops were	When completing	Addressed
Laboratories recommended	organized online. This is less	activities online, it is	
that planned in-person	practical for validating national	better to request that	
workshops should be held	SOPs and training materials,	multiple sessions be	
virtually, although there are	but it was achieved.	held.	
no longer restrictions on			
organizing in-person			
meetings.			
Delay in establishing an MOU	Efforts to establish an MOU are	It is important for IDDS	In progress
with the Directorate of	ongoing. The Directorate of	to stay abreast of new	
Laboratories, which become	Laboratories reviewed the	laws and regulations so	
a need following a new legal	MOU, provided comments,	the project can remain	
requirement for AMR labs in	and sent it to IDDS to revise.	compliant with local	
Senegal.	The ICF and PATH legal teams	processes.	
	adjusted the MOU and sent it		
	back to the DL, which now has		
	it for final signature.		

# **FY 2021 Q2 Output Results**



# **TANZANIA**

### **Quarterly Highlights**

#### **Success Story:**

IDDS Support Improves Antimicrobial Resistance Data Quality and Reporting at Tanzania's Regional Hospitals (See Annex B for full story)

Between December 2020 and March 2021, USAID's IDDS project supported Tanzania to initiate its national AMR surveillance framework.



#### **Diagnostic Highlights:**

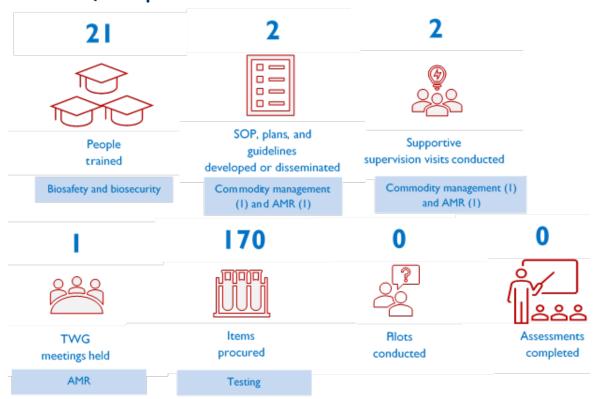
- Collaborated with the NPHL and the MOH Medical Stores Department to develop a supportive supervision checklist for AMR sentinel sites. IDDS conducted supportive supervision visits with the MOH from March 8 to 12, 2021, to four laboratories: Temeke Regional Referral Hospital in Dar es Salaam, Morogoro Regional Referral Hospital in Morogoro region, Benjamin Mkapa Hospital in Dodoma region, and Maweni Regional Referral Hospital in Kigoma region. Eighteen laboratory staff received supportive supervision from three MOH staff from the Pharmaceutical Service Unit and two IDDS specialists. The supervisory team provided technical assistance on supply chain and logistical challenges and inventory management. The visits revealed important areas for improvement in the laboratory supply chain. IDDS developed action plans in consultation with the laboratories and government stakeholders that will serve as baseline toward stepwise improvement in the AMR supply chain management and help address the frequent stockouts.
- All four IDDS supported laboratories conducting AST (antimicrobial susceptibility testing) now have sufficient number of staff and surveillance skills to conduct routine AMR surveillance as evidenced by quarterly supervision on-site visits and mentorship that IDDS provided in this quarter. Staff from these four sites received prior training on AMR surveillance from IDDS and they take routine competency assessments as part of the EQA program, which includes AST and AMR reporting components.

#### **Surveillance Highlights:**

 The supportive supervision visits discussed above also included supervision for the laboratories' surveillance activities. Using a data reporting template developed by IDDS and WHONET (which IDDS had installed on IDDS-procured computers in Q1), IDDS advisors conducted data review meetings with laboratory staff. During these review meetings, IDDS identified barriers and gaps, such as poor timeliness and completeness of AMR data being reported. IDDS technical advisors worked with the laboratory teams to troubleshoot these problems and create site-specific data quality improvement plans. These included technical assistance from IDDS for reviewing the data and IDDS support for printing and distribution of laboratory bacteriology registers to all the four sites. These activities built site-level capacity for capturing and reporting data.

Problem	Resolution	Lessons	Status
While collaborating with the	IDDS is working with the	It is important to be	In progress
NPHL, IDDS learned that the	American Society for	aware of the other	
American Society for	Microbiology to harmonize	work happening in	
Microbiology had also begun	efforts because IDDS's aim is to	thematic spaces in	
work to develop a supportive	support the development of a	which IDDS works. Not	
supervision checklist for	standardized national	only does IDDS want to	
microbiology laboratories	supportive supervision	minimize duplication	
conducting antimicrobial	checklist, and harmonization	of effort, but	
resistance surveillance.	will make the document more	collaborating with	
	comprehensive and encourage	other implementing	
	use by other partners. These	partners allows for	
	discussions are underway and	synergies that could	
	will continue in Q3.	lead to more impactful	
		outcomes of IDDS's	
		work.	

# **FY 2021 Q2 Output Results**



# **THAILAND**

# **Quarterly Highlights**

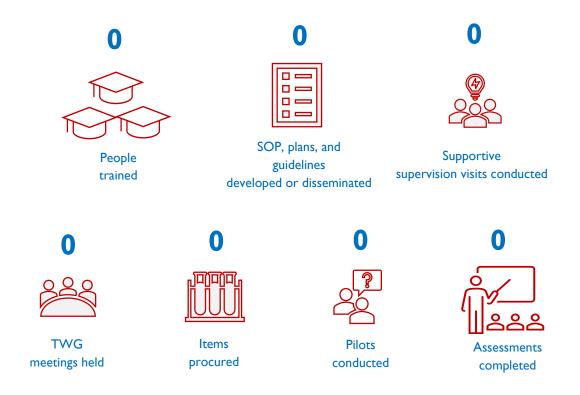
#### **Diagnostic Highlights:**

• Facilitated a video conference on January 25, 2021, on COVID-19 vaccine development and post-vaccine monitoring, and the impact of new virus variants. The conference was led by a professor from Australia, with 38 attendees from Brunei Darussalam, Myanmar, Malaysia, Vietnam, Singapore, Nepal, and Thailand, as well as key development partners, including representatives from the Defense Threat Reduction Agency, WHO Regional Office for South-East Asia, FAO, World Organisation for Animal Health, TUC, IDDS, USAID, the Thai Global Health Security Agenda Advisor, IQLS, CARPHA, National Institute of Animal Health (Thailand), and the National Institute of Health (Thailand). Video conferences between country members have helped promote information sharing and strengthened communication and linkages between country members.

Problem	Resolution	Lessons	Status
Delays in work plan	IDDS team continued to		Addressed
approval led to	support the FY 2020		
implementation delays.	carryover activities		
	through Q2 with the		
	carryover funds.		

### **FY 2021 Q2 Output Results**

Sixty-seven people participated in the RPHL network this quarter. Six documents were uploaded and 123 documents were downloaded from the website. Additionally, 38 people participated in one technical session held via videoconference this quarter.



# **UGANDA**

### **Quarterly Highlights**

#### **Success Stories:**

IDDS Revitalizes Facility- and Community-based Surveillance for COVID-19 in Eastern Uganda (See Annex B for full story)

Uganda was experiencing extensive community spread of COVID-19 by October 2020, and the established COVID-19 treatment centers were overwhelmed with the number of cases.

IDDS Supports Uganda's Ministry of Agriculture Animal Industries and Fisheries First Ever International Standards Organization Training (See Annex B for full story)

In Uganda, the Animal Health Department, under the Ministry of Agriculture Animal Industries and Fisheries (MAAIF) is tasked with investigating animal diseases and outbreaks in the field.

#### **Diagnostic Highlights:**

• Finalized, validated, and submitted tiered testing standards, called the National Laboratory Diagnostics Guidelines for Priority Zoonotic Diseases, to USAID by meeting with stakeholders from relevant ministries and implementing partners from the animal, human, and environment sectors. The national diagnostic guidelines provide a framework through which IDDS and other implementing partners will improve integration of appropriate diagnostic network components among the seven priority zoonotic diseases in animal and human laboratories and subsequently improve the International Health Regulations benchmark of having an effective national diagnostic network in place.

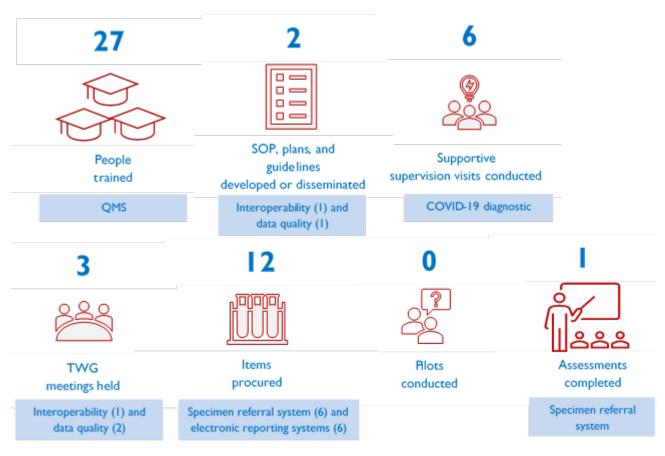
#### **Surveillance Highlights:**

- Conducted supportive supervision visits in March 2021 to evaluate the impact of the
  December 2020 trainings on COVID-19 held for health workers, village health teams, and district
  officials. Findings are included in the success story (Annex B).
- Deployed 10 smart phones and 2 tablets to the 3 districts in March 2021 to support real-time data entry and data submission in the region as well as support the Tororo mobile laboratory.
- Held a workshop with key stakeholders to review and finalize the draft national Strategy for
  Coordinated Surveillance of Priority Zoonotic Diseases. The surveillance strategy specifies a roadmap
  to a comprehensive surveillance system for preparedness, detection, and response to the seven
  priority zoonotic diseases and will provide a framework for IDDS and other implementing partners to
  operationalize a coordinated and integrated surveillance system.
- Completed guidelines and a tool for routine data quality assessment in animal health surveillance sites and worked with key stakeholders from the animal health sector, including the Ministry of Agriculture, Animal Industry and Fisheries, Uganda Wildlife Authority, and FAO, and some experts from the MOH who represented the human health sector, to review and validate document.

### **Problems Encountered and Solutions**

Problem	Resolution	Lessons	Status
COVID-19 supportive	After normal conduct of	Periods in which	Addressed
supervision visits were briefly	business resumed, IDDS quickly	implementation is	
delayed in January 2021 due	resumed activities to make up	paused due to external	
to political unrest	for lost time.	factors can be used to	
surrounding the Ugandan		strategize on how to	
presidential election.		resume/expedite	
		implementation when	
		the team is able to.	

# **FY 2021 Q2 Output Results**



# **VIETNAM**

### **Quarterly Highlights**

#### **Success Story:**

IDDS Support Starts Event-based Surveillance Using a One Health Approach in Two Pilot Provinces in Vietnam (See Annex B for full story)

Integrated human and animal health event-based surveillance (EBS) reporting will start for the first time in Vietnam's Dong Thap and Thai Nguyen Provinces in April 2021. The new integrated EBS reporting was made possible with IDDS support and the training of more than 1,100 staff across 21 districts.



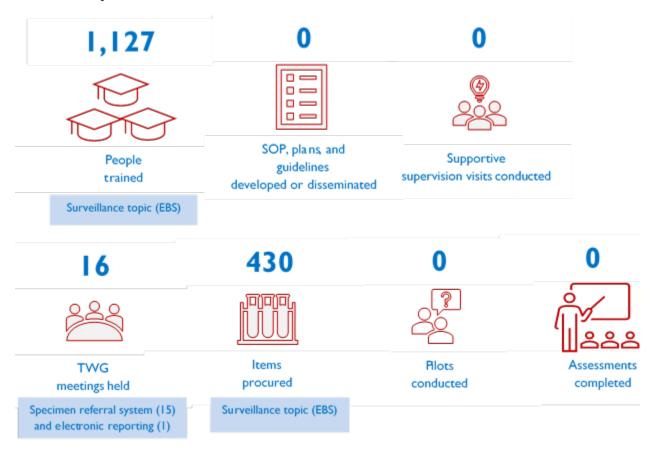
#### **Diagnostic Highlights:**

IDDS incorporated feedback, edited, and finalized the Animal Health Laboratory Capacity
 Assessment in 4 Provinces of Vietnam report. This report presents findings from an assessment of
 the capacities of four veterinary laboratories in Thai Nguyen, Ha Giang, Binh Dinh, and Dong Thap
 provinces, and concluded that all four assessed laboratories exhibited low and very low levels of
 veterinary laboratory capacity and biosafety. IDDS shared the final version of the report with the

- Department of Animal Health and with Regional Animal Health Offices (who were closely involved in developing the technical content), enabling laboratory leaders and local authorities to use the results of this assessment to develop laboratory upgrade and improvement plans, which will be a key step toward improving the capacity to detect priority pathogens in these provinces.
- At the request of the USAID Mission, IDDS also prepared a roadmap for developing a nation-wide integrated human health specimen referral system and presented this to the Mission to use as a tool to advocate resources to support completing the design of the referral system and piloting it in select provinces.

Problem	Resolution	Lessons	Status
A new wave of COVID-19	Preparatory activities were	COVID-19 is	Addressed
transmission in Vietnam	carried out through	unpredictable, so any	
started in late January 2021	telecommunication channels	project activities that	
and continued through	during the travel restriction	require travel and	
February, resulting in	period. The training sessions	gatherings of people	
restrictions in travel and	for 17 districts, however, had	should be organized	
in-person meetings and	to be postponed until March	as soon as the	
events. This caused delays	9, 2021, because it is not	COVID-19 situation	
in EBS training for local staff	practical to conduct EBS	allows.	
at district and commune	training online to local staff at		
levels.	district and commune levels.		
	This wave of COVID-19		
	transmission has been under		
	control since the second week		
	of March 2021.		

## FY 2021 Q2 Results



# **TB FY 2021 Q1 Achievements**

# **CORE TB**

### **Quarterly Highlights**

#### **Diagnostic Highlights**

- IDDS submitted a first draft of the FY 2021 Core TB work plan to USAID on March 5, 2021 and received feedback on March 31, 2021.
- IDDS completed testing and refinement of the web and mobile version of the TB-NET Tool. This
  version will be used to conduct future TB DNAs using tablets or mobile phones to capture data
  during site visits.
- IDDS started to develop training materials for introducing Truenat rapid diagnostic test into the national diagnostic network.
- IDDS reviewed the key findings and recommendations from the previously conducted Vietnam TB DNA self-assessment and verification visit with the NTP to obtain feedback. The NTP's inputs are helping the team finalize the report.
- In Zimbabwe, the Driving Xpert Optimization activity, which ended on March 31, 2021, contributed to faster maintenance of GeneXpert modules, remote instrument diagnosis, and improved transparency and accountability. The activity enabled Cepheid, SystemOne, and the NTP to jointly design and implement a holistic information plan around the GeneXpert network. Involvement of Cepheid increased the proportion of functional modules from 81 percent to 93 percent, and remote or onsite troubleshooting improved device connectivity levels. Lessons learned from this activity were drafted in Q2.

Problem	Resolution	Lessons	Status
The COVID-19 pandemic and	IDDS rapidly developed plans	There is a need to	In progress
subsequent lockdowns of	to mitigate the impact of the	include COVID-19	
countries, regions, and cities has	COVID-19 pandemic on the TB	restrictions and	
caused 1 million missing TB cases	epidemic with USAID support.	anticipate and plan	
in high TB burden countries and	IDDS supported countries to	accordingly. The Core TB	
1.5 million missing TB cases	implement and scale up	and TB country work	
globally. Disruption of TB	mitigation plans to improve	plans included	
services has caused a drop in TB	TB diagnostics during the	mitigation plans based	
notifications, from 25 percent to	COVID-19 pandemic. The	on the COVID-19	
50 percent over a three-month	mobile/web-based version of	pandemic and	
period.	the TB NET tool will help to	restrictions.	
	conduct the remote TB DNA.		

# **BANGLADESH**

## **Quarterly Highlights**

#### **Diagnostic Highlights**

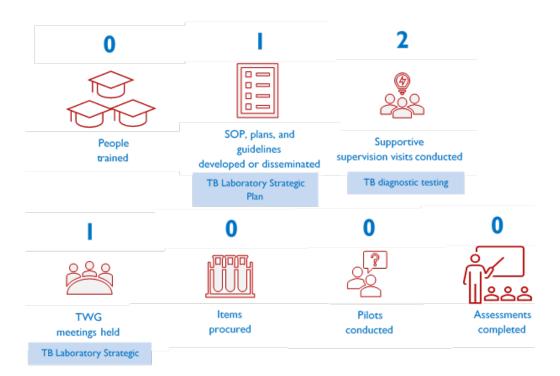
- Provided technical support to the NTP to organize a training of laboratory staff on LPA for machines
  that had been previously installed at the Sylhet BSL-3 Laboratory. The laboratory began providing
  LPA services for testing second-line TB drugs in FY 2021 Q2. IDDS is currently developing a validation
  report on the use of LPA.
- Completed a site assessment of the Khulna Regional TB Reference Laboratory for expansion of liquid culture/DST and LPA and completed an inventory of TB equipment and the status of each at Khulna Regional TB Reference Laboratory.
- Prepared protocols for the pilots of Truenat and Xpert/MDT/XDR and shared with the NTP and
  USAID for consideration in planning next steps. After the pilots have been rolled out, they will
  generate crucial evidence to support the introduction of these innovative technologies that have the
  potential to expand access to rapid, molecular TB diagnostics.

#### **Problems Encountered and Solutions**

None

#### FY 2021 Q2 Results

This reporting cycle, Bangladesh collected baseline, and FY 2021 Q1 and Q2 data. The data for Bangladesh are still undergoing review at the time of submission of this report draft. We will update when the data are validated.



# **BURMA**

## **Quarterly Highlights**

The first draft of the FY 2021 work plan amendment was submitted on February 1, 2021.

#### **Diagnostic Highlights**

- Conducted supportive supervision visits to four GeneXpert sites in Yangon region (North Okkalapa General Hospital, Hlaing Tharyar Township TB center, Tharkata Township TB center, and Lower Myanmar TB center), where staff were mentored on GeneXpert testing and the use of GxAlert. IDDS also provided technical assistance on improving GxAlert connectivity.
- The IDDS senior TB diagnostic specialist worked with key technical staff from BSL-3 laboratories in January 2021 to develop action plans to support the NTRL.
- Prepared SOPs for DST of second-line TB drugs.
- Developed an outline for a chapter on infection control at subnational facilities that will be part of the national infection control guidelines. The outline has been shared with the NTP.
- Finalized the chest X-ray training curriculum and submitted it to the NTP for review and approval when the NTP resumes its normal functions.

#### **Problems Encountered and Solutions**

Problem	Resolution	Lessons	Status
The coup d'état started on	IDDS staff have been working	This is a situation that	In Progress
February 1, 2021, and quickly	from home while trying to	is completely out of	
shut down all access to	respond to communications	IDDS's control at this	
government facilities and	and perform remote work as	time, but lessons may	
staff, and most TB services	connections allow. The work	be learned later as the	
have been suspended.	plan is being revised to try to	situation evolves.	
Internet communications	continue some remote		
have been severely	activities while ideas to		
restricted, and there are	continue supporting access to		
ongoing concerns that they	TB diagnostic services through		
may completely shut down	alternate mechanisms are		
with no notice.	being proposed, possibly		
	through private facilities. Ideas		
	will be discussed with the		
	Mission as communications		
	allow.		

### FY 2021 Q2 Results

Due to the political situation in Burma, the country team was unable to compile data for this quarterly report. Attempts will be made to collect the data when conditions permit.

# **CAMBODIA**

## **Quarterly Highlights**

- The second draft of the FY 2021 work plan was submitted on January 8, 2021, and the third draft was submitted on January 21, 2021. The work plan was approved by USAID on January 25, 2021.
- Recruitment for the country team was ongoing this quarter. IDDS hired a diagnostic specialist and a consultant to support the regional advisor.

#### **Diagnostic Highlights**

Coordinated discussions between CENAT and the USAID Mission in Cambodia on customizations
needed for DataToCare, a TB diagnostic connectivity platform available from Savics. IDDS shared the
list of required customizations with Savics, reviewed a quotation and timeline for implementation,
and executed an agreement to start the customization and installation of DataToCare.

#### **Problems Encountered and Solutions**

Problem	Resolution	Lessons	Status
It has been difficult to	IDDS has extended the search	For highly specialized	In progress
identify a chest X-ray expert	to include international	technical positions,	
to perform an assessment of	experts and is using its	IDDS should conduct	
the Telegram platform.	network to identify potential	parallel searching both	
	consultants.	locally and	
		internationally.	

## FY 2021 Q2 Results

There are no M&E data yet for Cambodia. IDDS Cambodia is still starting up and will collect baseline and FY 2021 Q2 data in the next quarter.

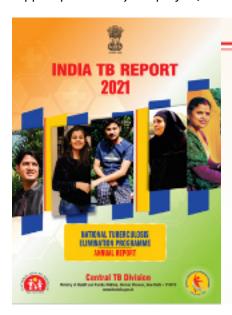
# **INDIA**

### **Quarterly Highlights**

#### **Success Stories**

IDDS Project Highlighted in India's "Jan Andolan for TB" Meeting and India Tuberculosis Report 2021 (See Annex B for full story).

Although USAID's Infectious Disease Detection and Surveillance (IDDS) project has only been operating in India since October 2021, the National Tuberculosis Elimination Program (NTEP) has recognized the support provided by the project, leading to visibility at the national level.



11. Implementation of the USAID funded Infectious Disease Detection and Surveillance (IDDS) project, awarded to ICF incorporated, to support the strengthening of strategic institutions to improve the quality and efficiencies of the TB diagnostics care cascade in NTEP. Initial on-site assessment was conducted for three NRLs and three linked IRLs under the public sector TB laboratories.

# IDDS Support to Bihar's Intermediate Reference Laboratory at Patna Improves Tuberculosis Diagnostics (See Annex B for full story)

IDDS is providing technical support to national reference laboratories (NRLs) and intermediate reference laboratories (IRLs) under India's National Tuberculosis Elimination Program to overcome challenges and ensure high-quality tuberculosis (TB) diagnostics.

#### **Diagnostic Highlights**

- Visited TB laboratories at different tiers of the health system to provide technical assistance to stream line laboratory processes, clear TB testing backlog, and discuss approaches for reducing turnaround time. Laboratories visited, were All India Institute of Medical Sciences in New Delhi, Rajan Babu Institute of Pulmonary Medicine and Tuberculosis in Delhi, and Intermediate Reference Laboratory (IRL) Patna in Bihar. At the All India Institute of Medical Sciences, IDDS' visit aimed to streamline laboratory processes and address gaps in envisaged roles and responsibilities of the IRL.
- Provided technical assistance to the Rajan Babu Institute of Pulmonary Medicine and Tuberculosis to assess preparedness and identify reasons for delays in initiating liquid culture services at the TB

- Culture and DST Laboratory. The laboratory has not been functional since 2018, when it was handed over to the institution through Global Fund Grant support under the NTEP.
- On February 25, 2021, IDDS and the national reference laboratory provided hands-on training on liquid culture and DST to six laboratory technicians and two microbiologists from Darbhanga and Bhagalpur Districts at IRL Patna, Bihar.

#### **Problems Encountered and Solutions**

Problem	Resolution	Lessons	Status
Unavailability of CTD officials	IDDS and USAID India regularly	Consistent effort and	Addressed
for consultative meetings	coordinated and followed up	follow-up in addition	
has delayed the process of	to schedule meetings with the	to working with key	
getting consensus for	CTD to review activities and	stakeholders was	
activities	get concurrence.	helpful to move	
		forward the process.	

### FY 2021 Q2 Results

FY 2021 Q2 M&E data collection was delayed for India as they worked to establish a data sharing agreement with the government. Some output data was compiled by the country team and presented here, while other indicators are still under review. We will update when the data are validated.



# **TANZANIA**

### **Quarterly Highlights**

• The FY 2021 work plan received contingent approval on January 13, 2021. A second draft of the work plan was submitted on February 24, 2021.

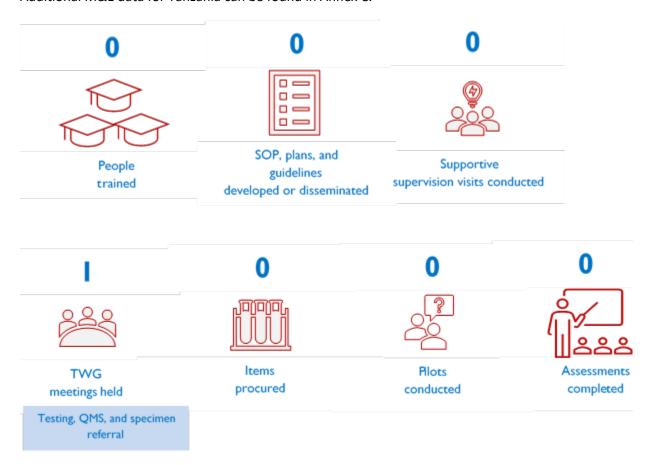
#### **Diagnostic Highlights**

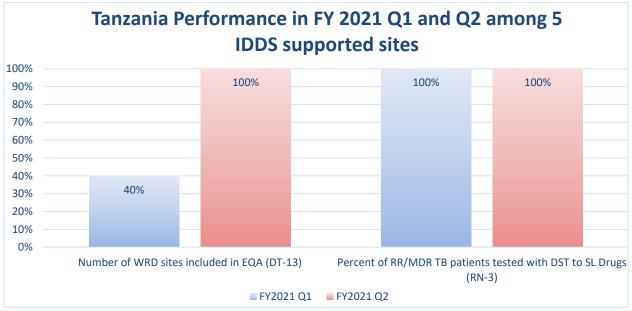
- Provided logistical support for the Q2 meeting of the Tuberculosis Laboratory TWG. During the
  meeting, representatives of the National TB and Leprosy Program and various implementing
  partners discussed zonal laboratories' program implementation, performance indicators, and
  challenges. The various implementing partners, including IDDS, presented implementation progress
  and planned activities. It was a productive meeting that identified areas of collaboration, synergy,
  and efficiency in the use of resources. The members of the TWG developed recommendations and
  action plans for Q3.
- As of FY 2021 Q2, 30 (or 94%) of Xpert sites were transmitting results electronically to national TB surveillance systems.

Problem	Resolution	Lessons	Status
Implementation was	Timelines have shifted, and	Work closely with all	Addressed
delayed due to delays in	IDDS anticipates that all work	stakeholders so that	
work plan approval.	will be completed within the	revised plans can be	
	period of performance.	made quickly when	
		necessary approvals	
		are received.	

#### FY 2021 Q2 Results

Additional M&E data for Tanzania can be found in Annex C.





# **VIETNAM**

## **Quarterly Highlights**

- The second draft of the FY 2021 work plan was submitted on January 8, 2021, with a third draft submitted on January 28, 2021. IDDS received approval of the work plan from USAID on February 9, 2021.
- Onboarded a new team lead, Dr. Duong Cuong, filling a key leadership role on the team.

#### **Diagnostic Highlights**

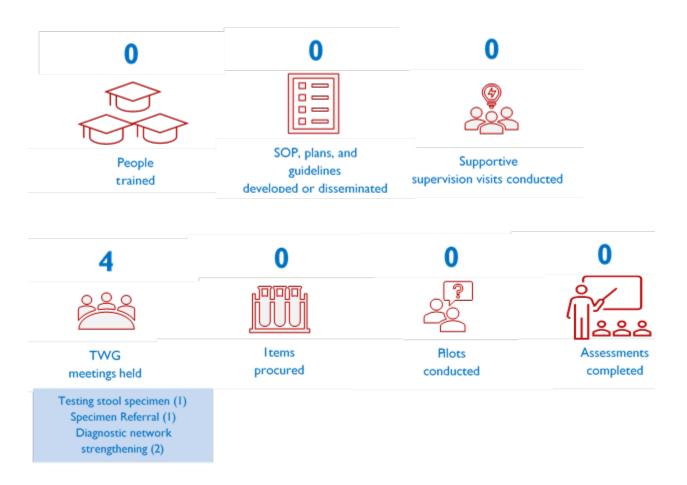
- Revised, edited, and submitted the Review of Implementation Pilot of Stool Specimen Collection,
  Storage, Transport, and Processing for GeneXpert Testing to Improve TB Diagnosis in Children
  report. This report will serve as the foundation for expanding stool testing in three IDDS-supported
  provinces (Dong Thap, Tay Ninh, and Tien Giang), greatly improving capacity to accurately detect TB
  pathogens in children in these provinces.
- Revised the TB DNA report to disaggregate NTP and non-NTP facilities and resubmitted the report to USAID for review.
- Held consultative meetings to discuss the specimen referral system and a model and SOP that will be harmonized with the referral system being established as part of GHS activities
- Finalized the upgrade plan for the provincial laboratory in Nghe An; however, the country has not been able to mobilize funding for the renovation work. IDDS will continue to provide technical assistance to ensure quality testing with GeneXpert.

#### **Problems Encountered and Solutions**

None

### FY 2021 Q2 Results

M&E data for Vietnam were still being collected from the NTP and other sources. Only output data are available at time of report submission.



# **ZIMBABWE**

### **Quarterly Highlights**

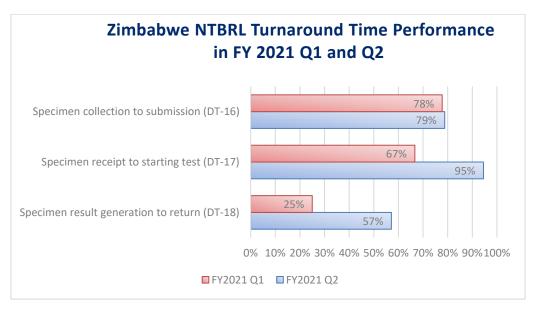
#### **Diagnostic Highlights**

- Supported DXO-targeted supportive supervision visits to laboratories that were facing challenges in using GeneXpert machines, using the GxAlert platform, and connecting to the national server between January 22 and January 29, 2021. IDDS visited 41 sites from 10 provinces in the country, which were identified through a review of the national dashboard. The troubleshooting visits were conducted by national GeneXpert superusers drawn from the NTP, NTRLs, and IDDS. A GxAlert troubleshooting checklist was used to standardize the supportive visits across sites. The supervisory visits facilitated onsite training of laboratory staff on Xpert troubleshooting and maintenance, troubleshooting non-reporting devices, swapping routers on devices with poor network connection, installing the new version of GxConnect software, and installing new routers and software in laboratories facing connectivity challenges.
- Developed a master list of all health facilities providing TB services in Zimbabwe and identified the Global Positioning System coordinates for each facility. The information will be used to develop specimen transport system routing schedules that prioritize the transportation of the TB specimen within clinically acceptable timelines.
- Supported the strategy review workshop, which was conducted from February 8 to February 12, 2021, in Inyanga. The review workshop was attended by 32 participants from the NTP, Directorate of Laboratory Services, Central hospitals, provincial laboratories, city health department and uninformed forces, and implementing partners. Participants included directors in the Ministry of Health and Child Care, laboratory managers, provincial laboratory scientists, national TB coordinators, logistics officers, quality officers, laboratory technical advisors, and project directors.

Problem	Resolution	Lessons	Status
ICF is not yet registered in	IDDS has been working with	Collaboration across	In progress
Zimbabwe, which has	sub-partners to coordinate	organizations	
affected implementation.	workshops and activities.	implementing the IDDS	
		project is important in	
		meeting the project	
		targets.	

# FY 2021 Q2 Results





# **COVID-19 FY 2021 Q2 Achievements**

# **INDONESIA**

### **Quarterly Highlights**

- Contributed to the COVID-19 response by supporting specimen collection and transport, training
  and technical assistance, procurement, and development of a COVID-19 national laboratory
  strategy. All activities were completed at the end of March 2021.
- Provided training and technical assistance. The video showcasing the impact of USAID COVID-19 funding through the IDDS project underwent final revisions and was approved by the MOH and USAID in March 2021. IDDS also collaborated with a video editor and the MOH to finalize training videos on how to enter COVID-19 test results into the data management system maintained by provincial offices. The training videos were approved by the MOH in March 2021.
- Procured additional priority commodities identified with the MOH to support human health laboratories to undertake COVID-19 PCR testing. Delivery of items is anticipated to continue through April and May 2021.
- Provided EQA through the delivery of EQA panels for the PCR laboratories that was completed in December 2020.

Problem	Resolution	Lessons	Status
The ceremony with the	It was agreed that IDDS would	Work closely with	Addressed
Mission and the MOH to	give the remaining VTM	country stakeholders	
hand over the remaining	directly to the MOH without a	to see whether	
VTM (of the original order) to	ceremony. The handover of	alternative solutions	
the Jakarta Provincial Health	the VTM was completed in	are possible.	
Office was delayed.	February 2021.		
Development of two	IDDS worked with the vendor	Work closely with	Addressed
remaining videos was	to finalize both videos in	country stakeholders	
delayed due to the need for	February 2021. The MOH and	to expedite activities.	
additional revisions for the	USAID expedited finalization of		
handover video and lack of	both videos in March.		
clarity on how to enter			
COVID-19 data into the data			
management system.			

Indicator	FY 2021 Q1 Result	FY 2021 Q2 Result	FY 2021 Cumulative
Number of specimens transported (weekly)	4,185	0	4,185
Number of specimens transported in ≤24 hours (weekly)	4,185	0	4,185
Number of unique sites specimens are collected from (weekly)	18	0	18
Number of specimen collection/transport training flash drives			
distributed (weekly)	0	15	15
Number of WHO-purchased EQA panels delivered by IDDS	177	0	177
Number of sites that received the WHO-purchased EQA panels			
delivered by IDDS	177	0	177
Number of VTM ordered (weekly)	6,000	15,000	21,000
Number of VTM delivered (weekly)	6,000	750	6,750
Number of swabs ordered (weekly)	0	15,000	15,000
Number of packaging materials ordered (weekly)	0	2,000	2,000
Number of safety googles ordered (weekly)	0	700	149
Number of hazmat suits ordered (weekly)	0	1,785	700
Number of PCR other ordered (weekly)	0	149	1,785
Number of N95 masks ordered (weekly)	0	5,750	5,750
Number of N95 masks delivered (weekly)	600	0	600
Number of surgery masks ordered (weekly)	0	30,000	30,000
Number of HEPA filters ordered (weekly)	8	0	8
Number of HEPA filters delivered (weekly)	8	0	8
Number of microcentrifuge refrigerators ordered (weekly)	0	8	8
Number of PCR workstations ordered (weekly)	0	8	8

# **MALI**

# **Quarterly Highlights**

• Completed activities at the end of December 2020. Closeout was completed in February 2021.

### **Problems Encountered and Solutions**

None

#### FY 2021 Results

There are no new results for FY 2021 Q2. Annual results are summarized below.

Indicator	FY 2021 Q1	FY2021 Q2	FY 2021
	Result	Result	Cumulative
Number of specimens transported (weekly)	7,994	0	7,994
Number of specimens transported in ≤24 hours (weekly)	7,994	0	7,994
Number of unique sites specimens are collected from (weekly)	19	0	19
Number of rapid diagnostic test (RDT) trainings conducted			
(weekly)	4	0	4
Total number of RDT training participants (weekly)	40	0	40
Number of RDT female training participants (weekly)	16	0	16
Number of RDT training participants who passed the training			
(80% or higher)	24	0	24
Number of VTM delivered (weekly)	1,800	0	1,800
Number of packaging materials delivered (weekly)	100	0	100
Number of min/max thermometers delivered (weekly)	50	0	50

# **PHILIPPINES**

# **Quarterly Highlights**

- A first tranche of IDDS COVID-19 funding-supported activities in the Philippines were completed at
  the end of November 2020. IDDS the received a second request from USAID to provide additional
  support for the COVID-19 outbreak in the Philippines. IDDS submitted a work plan to USAID for
  approval on February 26, 2021. IDDS support under this additional set of funds began in March and
  will continue through August 2021. Funding under this second tranche focuses mainly on specimen
  transportation, with additional funds allocated toward training and technical assistance and
  procurement in support of COVID-19 testing.
- Supported specimen transportation by meeting with the Department of Health regional officers and local government units to plan for and coordinate specimen transport activities. Three provinces were finally selected for implementation: the Bulacan Province (Region III) and Rizal Province (Region IVA), because of the high numbers of recorded COVID-19 cases observed, and the Palawan Province (Region IVB), due to limited access to COVID-19 testing laboratories.

### **Problems Encountered and Solutions**

Problem	Resolution	Lessons	Status
Finding qualified staff to	IDDS is coordinating with the	Work closely with	In progress
undertake project work due	Centers for Health and	stakeholders to find	
to COVID-19 risks and	Development and the local	qualified staff.	
restrictions	government units to circulate		
	job postings and is actively		
	sharing recommendations of		
	potential staff.		
Finding vehicle rental	IDDS is working with the	Work closely with	In progress
agencies to work in IDDS	Centers for Health and	stakeholders to move	
selected areas due to COVID-	Development and local	activities forward.	
19 travel restrictions	government units to receive		
	recommendations for rental		
	agencies that are based in the		
	project sites.		

Indicator	FY 2021 Q1 Result	FY2021 Q2 Result	FY 2021 Cumulative
Number of specimens transported (weekly)	14,352	0	14,352
Number of specimens transported (weekly)  Number of specimens transported in ≤24 hours (weekly)	13,848	0	13,848
Number of specimens transported in 25 to ≤48 hours (weekly)	448	0	448
Number of specimens transported in 49 to ≤72 hours (weekly)	45	0	45
Number of specimens transported in more than 72 hours			
(weekly)	11	0	11
Number of unique sites specimens are collected from (weekly)	19	0	19

# **SENEGAL**

### **Quarterly Highlights**

- IDDS COVID-19 funding-supported activities in Senegal were completed in December 2020. The
  administrative closeout occurred in February 2021. During closeout, a small amount of funds was
  identified and used for additional procurement.
- Procured a biosafety cabinet class II, which was delivered to the Regional Hospital of Louga in January 2021. The remaining commodities purchased with the funds identified during closeout were cleared from customs and delivered to Louga Regional Hospital and Ouakam Health Center Dakar.
   One microcentrifuge is still awaiting customs clearance and will be delivered in April 2021 to Ziguinchor Regional Hospital and Dalal Jaam Hospital.

#### **Problems Encountered and Solutions**

None

Indicator	FY 2021 Q1 Result	FY2021 Q2 Result	FY 2021 Cumulative
Number of packaging materials delivered (weekly)	120	0	120
Number of PCR extraction reagents delivered (weekly)	2,400	0	2,400
Number of min/max thermometer delivered (weekly)	50	0	50
Number of biosafety cabinets delivered	0	1	1
Number of digital thermo shakers ordered	2	0	2
Number of digital microcentrifuges ordered	2	0	2
Number of digital microcentrifuges delivered	0	1	1
Number of vortex mixers ordered	4	0	4
Number of vortex mixers delivered	0	2	2

# **TANZANIA**

### **Quarterly Highlights**

- IDDS COVID-19 funding-supported activities in Tanzania were completed at the end of December 2020. Closeout was completed in February 2021.
- Procured items, including triple packaging, the outer carriage for triple packaging, pipettes, desktop
  computers, and printers, were delivered in January 2021 to the 16 regions at the border, with some
  sent to the NPHLs. Several laptop and desktop computers, VTM, swabs, and COVID-19 sanitary items
  (powder-free gloves, waste bins, handwashing soap, soap dispenser, sharp containers) were
  delivered in March 2021. Five remaining computers/laptops are expected to be distributed in the
  first week of April 2021, which will complete all procurement activities.

#### **Problems Encountered and Solutions**

Problem	Resolution	Lessons	Status
Monitoring by the Tanzania	Items were delivered.	Stay aware of changing	Addressed
Medicines and Medical	Remaining laptops/computers	policies that may affect	
Devices Authority increased	will be delivered in April 2021.	implementation of	
for COVID-19-related items,		activities.	
creating delays for the			
vendor in clearing items for			
delivery.			

Indicator	FY 2021 Q1	FY2021 Q2	FY 2021
	Result	Result	Cumulative
Number of VTM ordered (weekly)	14,000	0	14,000
Number of VTM delivered (weekly)	0	14,000	14,000
Number of packaging materials ordered (weekly)	360	0	360
Number of PCR tubes ordered (weekly)	20,000	0	20,000
Number of PCR tubes delivered (weekly)	10,000	10,000	20,000
Number of pipette tips ordered (weekly)	96,000	0	96,000
Number of pipette tips delivered (weekly)	63,360	32,640	96,000
Number of computers/computer equipment (UPS, anti-virus			
software, etc.) ordered (weekly)	0	10	10
Number of computers/computer equipment (UPS, anti-virus			
software, etc.) delivered (weekly)	0	5	5
Number of printers ordered (weekly)	0	2	2
Number of printers delivered (weekly)	0	2	2
Number of COVID sanitary supplies ordered (waste bins,			
handwashing dispenser, soap, latex gloves, sharps container)	0	323	323

# **THAILAND**

## **Quarterly Highlights**

- IDDS contributed to the COVID-19 response in Thailand by providing procurement this quarter. IDDS
  also provided COVID-19-focused support to the Association of Southeast Asian Nations countries in
  the region through the RPHL Network. IDDS COVID-19 funding-supported activities in Thailand were
  completed at the end of March 2021.
- Procured and supported delivery of commodities to respond to the continuing surge of COVID-19
  cases reported along the Thailand-Burma border through close coordination with the Department of
  Medical Science Thailand. Delivery of commodities was completed by activity closeout.

### **Problems Encountered and Solutions**

Problem	Resolution	Lessons	Status
Commodity shortages and	IDDS has been coordinating	There is a need for	In progress
limited storage space at	with the laboratories and the	carefully planning and	
laboratories receiving	vendors to ensure that goods	coordinating logistics	
commodities created	are delivered in a timely	so that storage for	
delivery and supply chain	manner and that the	commodities is	
management challenges	documentation is accurate.	available when	
related to accurate		needed.	
documentation and delays.			
		Ensure that an efficient	
		process is in place with	
		vendors to accurately	
		document procured	
		commodities	

Indicator	FY 2021	FY2021	FY 2021
	Q1 Result	Q2 Result	Cumulative
Number of PCR extraction reagents ordered (weekly)	10,560	0	10,560
Number of PCR extraction reagents delivered (weekly)	4,944	5,616	10,560
Number of PCR mix/master mix ordered (weekly)	1,488	0	1,488
Number of PCR mix/master mix delivered (weekly)	1,488	0	1,488
Number of PCR detection reagents ordered (weekly)	5,000	330	5,330
Number of PCR detection reagents delivered (weekly)	540	4,794	5,334
Number of PCR other ordered—microcentrifuge tubes,			
filter tips, PCR strips and tubes (weekly)	3,840	0	3,840
Number of PCR other delivered—microcentrifuge tubes,			
filter tips, PCR strips and tubes (weekly)	3,840	0	3,840
Number of pipettor ordered	4	0	4
Number of pipettor delivered	4	0	4
Real-time PCR machine ordered	2	0	2
Real-time PCR machine delivered	2	0	2

# **VIETNAM**

### **Quarterly Highlights**

- IDDS COVID-19 funding-supported activities in Vietnam related to development of an EQA scheme based on a sustainable retesting approach and procurement. All COVID-19 funding-supported activities in Vietnam were completed at the end of March 2021.
- Supported EQA through establishing a SARS-CoV-2 Retesting Program as part of the EQA strategy, which was submitted to USAID in January 2021.
- Procured a third set of specimen swabs and VTM, which was delivered to the NTP in January 2021.
  During the administrative closeout, remaining funds from the EQA retesting strategy were
  redistributed to enable additional procurement. The IDDS team worked with the MOH and other
  stakeholders to identify five SARS-CoV-2 testing facilities with high-priority commodity procurement
  needs and began the necessary procurement in January 2021. Delivery of these items is anticipated
  to continue through April and May 2021.

#### **Problems Encountered and Solutions**

Problem	Resolution	Lessons	Status
An outbreak related to	IDDS coordinated with key	Work closely with	Addressed
community transmission led	stakeholders to revise the	stakeholders to adjust	
to a change in testing	procurement plan and secure	activities as needed	
commodity needs, delaying	deliveries of commodities to	due to external	
the original procurement	hospitals where the needs	circumstances.	
plan.	were greatest.		

Indicator	FY 2021	FY2021	FY 2021
	Q1 Result	Q2 Result	Cumulative
Number of VTM ordered (weekly)	0	5,000	5,000
Number of VTM delivered (weekly)	5,100	12,800	17,900
Number of swabs ordered (weekly)	0	3,000	3,000
Number of swabs delivered (weekly)	14,500	18,500	33,000
Number of PCR extraction reagents ordered (weekly)	0	12,052	12,052
Number of PCR extraction reagents delivered (weekly)	0	338	338
Number of PCR primers ordered (weekly)	0	9,600	9,600
Number of PCR mix/master mix ordered (weekly)	0	6,250	6,250
Number of PCR other ordered—microcentrifuge tubes, filter			
tips, PCR strips and tubes (weekly)	0	432,016	432,016
Number of PCR other delivered—microcentrifuge tubes,			
filter tips, PCR strips and tubes (weekly)	0	99,652	99,652
Number of gloves ordered (weekly)	0	40,000	40,000
Number of gloves delivered (weekly)	0	40,000	40,000

# **GHS Funding for Ebola Virus Disease FY 2021 Q2 Achievements**

# DEMOCRATIC REPUBLIC OF THE CONGO

#### FY 2021 Results

### **Quarterly Highlights**

Contributed to the EVD response by providing support for laboratory strengthening.

#### **Specimen Transport**

- Contracted two vehicles to transport specimens in Butembo and neighboring health zones with suspected cases of EVD.
- Used contracted vehicles to support the INRB in the distribution of EVD diagnostic commodities, including RDT kits and personnel protective equipment, to the INRB laboratories in Beni and Butembo. The vehicles also transport used cartridges to Beni before the cartridges are sent by plane to Goma for safe disposal. IDDS continues to consult and discuss with the chief of the *Division Provinciale de la Santé* (Provincial Health Division) and other implementing partners as to whether specimen transport assistance is required.

#### **Procurement**

- IDDS Senior Diagnostic Specialist, Dr. Vital Nkake, travelled to Butembo, Beni, and Mangina to introduce the IDDS project and its support to the EVD response team.
- Received an agreement from the Division Provinciale de la Santé (Provincial Health Division) and INRB team on the list of priority laboratory commodities. IDDS has initiated the procurement process.
- Started the procurement of 1,000 GeneXpert cartridges from Cepheid as requested by USAID Washington.

#### **Problems Encountered and Solutions**

None

Indicators	FY 2021 Q2 Results	FY 2021 Cumulative
Distribution of MOH Commodities		
Number of GeneXpert Ebola cartridges transported	300	300
Number of used GeneXpert Ebola cartridges transported for		
incineration	1,909	1,909
Number of nasopharyngeal swabs transported	2,000	2,000
Number of VTM transported	700	700
Number of EVD specimen collection containers transported	300	300
Number of pairs of gloves transported	3,000	3,000
Number of Cryoboxes transported	100	100
Number of Cryotubes transported	2,500	2,500

## **GUINEA**

#### FY 2021 Results

### **Quarterly Highlights**

Contributed to the EVD response by providing support for laboratory strengthening.

#### **Specimen Transport Tracking System**

- Developed SOPs to support the monitoring and tracking of specimen location, integrity, and quality, as well as results.
- Worked with the laboratory TWG to validate the SOPs, which will be printed and disseminated in April 2021.

#### **Diagnostic Training and Technical Assistance**

 Used available materials developed by the DNL to complete five sets of trainings in biosafety and biosecurity in Kindia and Nzérékoré. The number of people trained is shown in the FY 2021 Results table.

#### **Xpert Ebola Assay Quality Assurance**

 Initiated the development of a quality assurance plan for GeneXpert Ebola Assay for the laboratory in Nzérékoré.

#### **Information Management Systems**

- Developed the terms of reference to hire a consultant who will support the configuration of the
  existing HMIS to integrate key laboratory variables and indicators to capture EVD data.
- Procured tablets and computers and handed them over to the Agence Nationale de Securité
  Sanitaire (National Health Security Agency) and the DNL.

#### **Procurement**

- Started the procurement of 1,000 GeneXpert cartridges from Cepheid as requested by USAID Washington.
- Placed an order of 50 cooler boxes with anticipated delivery in April 2021.

#### **Problems Encountered and Solutions**

None

Indicators	FY 2021 Q2 Results	FY 2021 Cumulative
Training		Cumulative
Number of EVD biosafety and biosecurity trainings		
conducted	5	5
Total number of EVD biosafety and biosecurity training		
participants	40	40
Number of female EVD biosafety and biosecurity training		
participants	10	10
Number of EVD biosafety and biosecurity training		
participants who passed the training (80% or higher)	24	24
Procurement		
Number of tablets ordered	20	20
Number of tablets delivered	20	20
Number of computers ordered	7	7
Number of computers delivered	7	7
Number of packaging materials-cooler boxes ordered	50	50
Number of packaging materials-cooler boxes delivered	0	0

# **LIBERIA**

### FY 2021 Results

# **Quarterly Highlights**

• The work plan was submitted on March 19, 2021. Due to new GHS funding, USAID requested that the work plan be revised, and discussions with USAID are taking place.

### **Problems Encountered and Solutions**

None

#### FY 2021 Results

No data to report during FY 2021 Q2.

# **MALI**

### FY 2021 Results

# **Quarterly Highlights**

• The work plan was submitted on March 19, 2021, and is pending approval from USAID. IDDS is planning to focus on three priority areas: diagnostic training and technical assistance, procurement, and surveillance technical assistance.

### **Problems Encountered and Solutions**

None

### FY 2021 Results

No data to report during FY 2021 Q2.

# **SENEGAL**

#### FY 2021 Results

### **Quarterly Highlights**

Contributed to the EVD response by providing support for surveillance and contact tracing.

#### **Training and Technical Assistance**

- Met with the Directorate of Prevention at the MOH to discuss the IDDS work plan, and they agreed on the next steps, including prioritizing the health districts that IDDS will cover.
- Started updating the EVD surveillance materials that will be used for the trainings. The process is still
  ongoing.

#### **Information Systems**

• Started initial discussions with the Department of Health Information Systems for the development of a tracker for suspect cases and contact tracing.

#### **Problems Encountered and Solutions**

None

#### FY 2021 Results

No data to report during FY 2021 Q2.

# **Annex A: Activity Implementation Progress**

# **Annex B: Success/Highlight Stories**

# **Annex C: Country M&E Tables for GHS and TB**