



ANNUAL REPORT 2021-2022

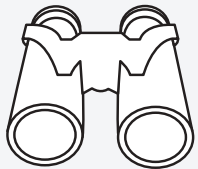
Investing In The Future.
Impacting Real Lives.



IDI STRATEGIC PLAN 2018-2023

ALIGNING INSTITUTIONAL CAPACITY TO OPPORTUNITIES

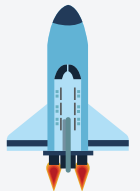
VISION



A HEALTHY AFRICA FREE FROM THE BURDEN OF INFECTIOUS DISEASES

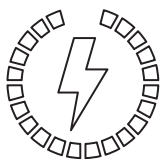
MISSION

TO STRENGTHEN HEALTH SYSTEMS IN AFRICA WITH A STRONG EMPHASIS ON INFECTIOUS DISEASES THROUGH RESEARCH AND CAPACITY BUILDING



OVERARCHING APPROACHES

ACTION AREAS



CATALYTIC ROLES TOWARDS ACHIEVING EPIDEMIC CONTROL

HSS & PCT: Differentiated service delivery models (young people, men of ages 20-40, MARPS, evaluations)
RESEARCH: Implementation science, Health economics and research capacity building
LABS: Lab-based monitoring and research
SYSTEM STRENGTHENING: Sub-grantee capacity
CAPACITY BUILDING: Tailored training in support of new approaches, models and policies



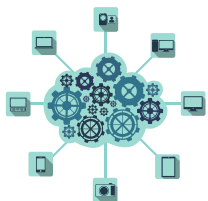
LEVERAGING ESTABLISHED CAPACITY AND PLATFORMS FOR ENHANCED PROGRAMMING

HSS: Interface with NCDS, NTDs emerging diseases and refugee health
PCT: Building clinical research organisation capacity and infrastructure on clinic platform
RESEARCH: Using existing research platforms and partnerships to provide data and build analytical capacity
LABS: Non-research product delivery
GHS: Building capacity on existing HIV programme platforms and resources
CAPACITY BUILDING: To support a broader range of health conditions



HARNESSING BIG DATA

HSS: Population level data capacity
PCT: Longitudinal cohorts
RESEARCH & GHS: Surveillance and bioinformatics capacity
LABS: Data repositories
SYSTEMS STRENGTHENING: Data analytics, infrastructure and new programme development
CAPACITY BUILDING: Building of staff and partner skills in support of big data programming



TECHNOLOGY-LED PROGRAMME INNOVATION

ACADEMY: Embracing new technologies for better programme delivery and management in Drone technology, Application, development, mHealth, Artificial Intelligence and Blockchain



SUSTAINABLE OPERATIONS



STRATEGIC PARTNERSHIPS, COLLABORATION & ENHANCED COMMUNICATIONS



MAKERERE UNIVERSITY

Investing in the future: Impacting Lives



IDI
INFECTIOUS
DISEASES
INSTITUTE

FROM THE BOARD CHAIR

It is my great pleasure to present to you this annual report which coincides with our 20th-anniversary celebrations. This milestone represents two decades of hard work, dedication, and innovation in the field of infectious diseases prevention, care, treatment and research. Since our establishment in 2002, IDI has been at the forefront of tackling the most pressing infectious diseases in Africa, including HIV/AIDS, tuberculosis, malaria, and more recently, emerging/re-emerging and neglected tropical diseases. I have reason to believe that our efforts have contributed significantly to the global fight against infectious diseases and saved countless lives. Over the years, IDI has grown from a small institute to a world-renowned centre of excellence, thanks to the tireless efforts of our dedicated staff, partners, and stakeholders. We are proud to have contributed to improving health outcomes in Uganda and beyond as you will see in this report. We ended these first two decades of our existence with the COVID-19 pandemic which brought unprecedented challenges but also demonstrated our resilience and adaptability. I think you will all agree that the Institute has come out even stronger! As we look ahead, we remain optimistic about the future and are excited about the new opportunities that lie ahead. We are particularly excited about the new possibilities that data and computing will open up for health programs and discovery. We will strive to meet the new challenges that these developments will bring, especially for low-income countries. We are grateful for your partnership and we are counting on your continued unwavering support for the next 20 years!



REV. PROF. SAM LUBOGA

FROM THE EXECUTIVE DIRECTOR



DR ANDREW KAMBUGU

I am pleased to report on the tremendous progress and accomplishments we have made in the fight against infectious diseases. The past year has been an extraordinary one for our institute, as we continued to support the response to a global pandemic. We have seen first-hand the devastating impact that infectious diseases can have on individuals, families, communities, and societies as a whole. I am proud to say that our teams have remained steadfast in our commitment to advancing our mission in support of our beneficiaries and stakeholders. In this report, you will find a comprehensive overview of the Institute's achievements over the past year. As we celebrate 20 years and 100 years of existence for IDI and Makerere University respectively, our staff continue to make significant contributions to the capacity of our health systems and to the scientific community through ground breaking research and innovative models of public health programming. Our efforts would not be fruitful without the ongoing support and collaboration of you, our partners, stakeholders, and funders, so we look forward to working together again in the coming year.



CELEBRATE | **INSPIRE**
2002-2022 | 2023-2043



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HEALTH SYSTEMS STRENGTHENING

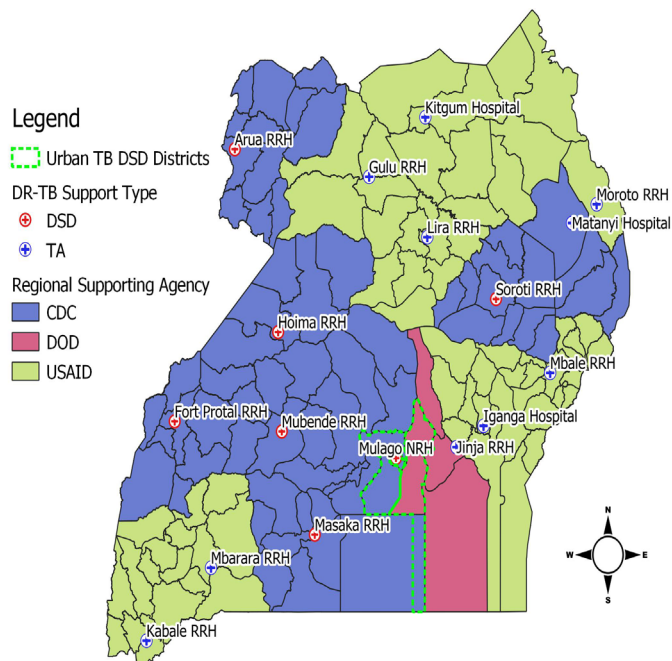


Handover from Defeat TB chief of party Dr Abel Nkolo to USAID Local Partner Health Services TB Activity project director Dr Mary Mudiopo in January 2022.

GROWTH OF THE TB PORTFOLIO

In October 2021, the Institute was awarded a five-year USAID-funded Local Partner Health Services-TB (LPHS-TB) project which is a transition award from Defeat TB project. The LPHS-TB Activity enhances the TB response in Kampala, Mukono and Wakiso districts in collaboration with IDI-Kampala HIV Project and Makerere University Walter Reed Project (Mukono). Full transition of all technical areas of the project to IDI was completed by July 01, 2022. With this award, the mandate for the Institute has expanded to provision of technical assistance to the Ministry of Health-National TB and Leprosy Division. This is the flagship US government TB project in Uganda. The scope has also increased to include the provision of technical assistance in the management of drug-resistant TB directly to seven regional referral hospitals and indirectly to 10 other hospitals managing drug-resistant TB in Uganda.

GEOGRAPHICAL COVERAGE OF USAID LPHS-TB PROJECT



CATALYTIC EFFORTS TO ACHIEVE HIV EPIDEMIC CONTROL

Key Population (KP) are groups of people whose social marginalisation makes them particularly vulnerable to HIV infection because they experience both increased impact and decreased access to services.

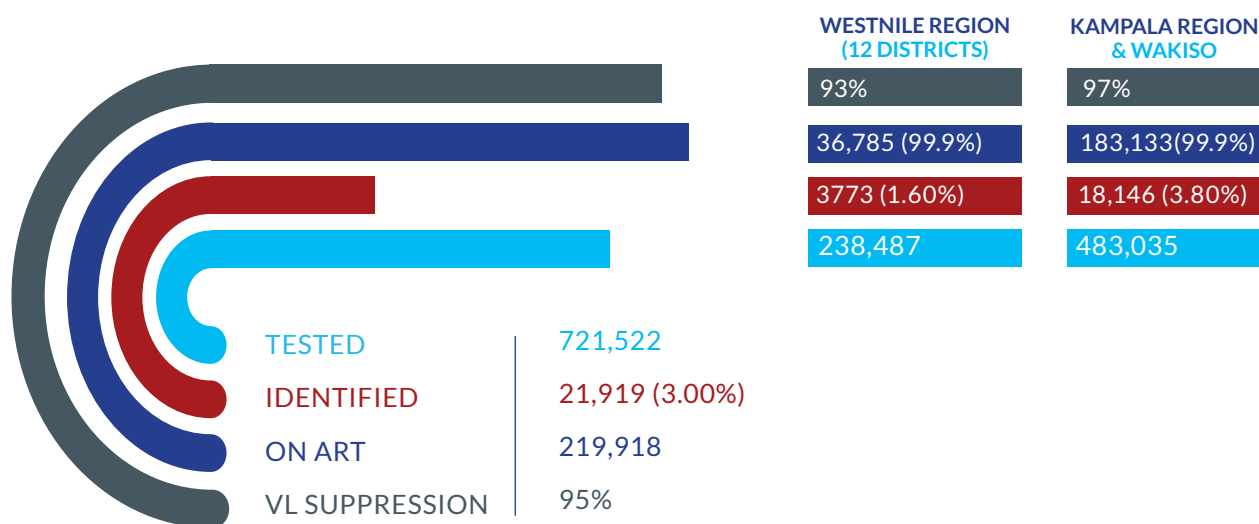
In August 2020, IDI was awarded PEPFAR/CDC funding to implement a five-year above-site KP Civil Society Organisation (CSO) project. The overall goal of this project is to accelerate HIV epidemic control through strengthening KP community systems, coordination and collaboration among different stakeholders for sustainable HIV health service delivery by 2025.

In October 2021, the IDI National CSO mechanism expanded its scope beyond the seven regions of Uganda supported primarily by USAID and Department of Defence. The

project facilitates scale up of effective, efficient and quality comprehensive HIV services through community drop-in centres.

Key areas of support for KP programming include CSO mapping, capacity assessments, system strengthening for effective program delivery through tailored trainings, mentorship and CSO exchange-learning across regions. To date, the mechanism has trained 147 CSO staff from 60 CSOs in financial management, 113 staff from 45 CSOs in data management and information security, 134 staff from 62 CSOs in resource mobilisation, 82 staff in infection prevention and control, 85 gate-keepers in gender-based violence prevention and management, 72 staff in continuous quality improvement. Division of quality assurance and community scorecard activities have been implemented at 18 drop-in centres.

CONTRIBUTION TOWARDS HIV EPIDEMIC CONTROL IN THE KAMPALA AND WEST NILE REGIONS



DISSEMINATION ARTICLES UNDER PEPFAR MECHANISMS

DISSEMINATION ARTICLE	LEVEL OF DISSEMINATION	DISSEMINATION PLATFORM	TOTAL SUBMITTED	ACCEPTED
Abstract	International	CROI 2021/22	04	03
		Fast Track Cities October 2021	01	00
		IAS 2021	03	01
		American Public Health Association Conference 2021	01	01
	National/ Regional	8th National Quality Improvement conference 2021	10	06

INNOVATION TO INCREASE **VACCINE UPTAKE**

In October 2020, the WN region HIV/AIDS project partnered with Vantage Health Technologies (part of the BroadReach Group) to utilize the **Vantage Program Oversight** solution, which enables tracking of programme performance against targets and guides project teams in making necessary timely interventions. Subsequently, the Vantage regional competition was instituted to encourage field office teams to work towards achieving targets and project objectives through the active use of **Vantage**. The winners for May 2022 were as follows:



Field Office Adoption
Koboko Field Office (three times in a row)



Individual Adoption
1st Prize: Mike Odeke (Koboko)
2nd Prize: Veronica Rebecca Namuddu (Adjumani)
3rd Prize: Paineto Ssaazi (Arua)



Individual Value & Behaviour
Gold: Dr Kayinda Francis – improving performance
Silver: Benjamin Tirwomwe – improving data quality



MIKE
ODEKE



VERONICA
NAMUDDU



PAINETO
SSAAZI



FRANCIS
KAYINDA



BENJAMIN
TIRWOMWE

TRAINING PHARMACY INTERNS

Since 2016, the health system strengthening department has been receiving and training pharmacy interns under the Ministry of Health internship programme. Following a hiatus due to restrictions stemming from the COVID-19 pandemic, the institute received six interns in May 2022. The interns have benefited from hands-on training on a continuum of curricular including HIV disease, pharmacology of ARVs and medicines supply chain to mention a few.



The Minister, Office of the Prime Minister, Justine Kasule Lumumba representing the Prime Minister with Health Minister Jane Aceng at the TB Marathon. The event was supported by IDI LPHS team in March 2022.



DREAMS beneficiaries with the US Ambassador to Uganda, Natalie Brown

GLOBAL HEALTH SECURITY

COVID-19 VACCINATION

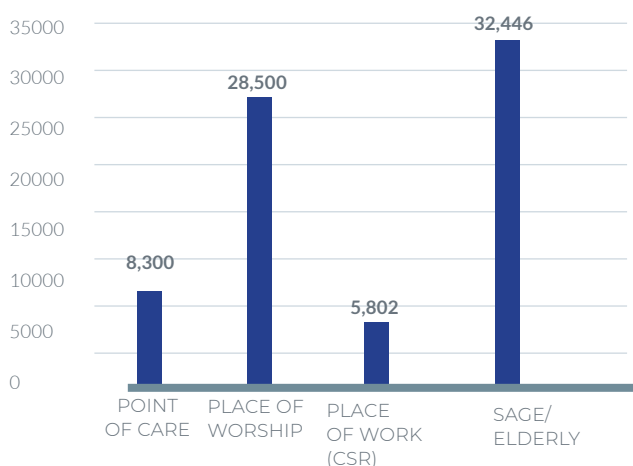
Vaccination is the most critical intervention to minimize the harmful impacts of the COVID-19 pandemic. The IDI GHS programme contributed to the Government of Uganda's effort to roll out COVID-19 vaccination nationwide. At the outset, IDI focused on mobilizing priority groups to receive COVID-19 vaccines. These groups included those more likely to be exposed to the SARS-COV-2 virus in the workplace (health workers, teachers, security forces), the elderly, and patients with co-morbidities that posed them at greater risk for severe illness or death from COVID-19. IDI engaged relevant stakeholders, including government institutions, professional bodies, organizations, religious institutions, and private businesses, to increase awareness of the vaccination program and advocated for specific efforts to ensure these groups received vaccines.

SUPPORT TO GOVERNMENT

To address vaccine hesitancy, IDI worked under the supervision of the Ministry of Health to develop educational materials on COVID-19 to train "vaccination champions" – individuals who could directly reach others and support them to overcome barriers to obtaining their vaccines. Stakeholder consultations enabled IDI to identify barriers and use this information to develop models to improve vaccination uptake for prioritised groups.

Examples included locating COVID-19 vaccination services at HIV clinics, places of worship, and close to payment points for financial assistance programs for the elderly. Through these models, IDI directly supported the vaccination of a large number of individuals.

INDIVIDUALS VACCINATED THROUGH MODELS TARGETING PRIORITY GROUPS



8,000 VACCINATION CHAMPIONS

IDI trained over 8,000 vaccination champions, including 5,956 health care workers in 764 public and private health facilities in 91 districts, and community workers, including members of the Uganda Red Cross Society.

SPOTLIGHT

In 2021, with the rapidly expanding GHS programme, a new role titled Deputy Head of Department was created to support the head of department. After a highly competitive search



FRANCIS KAKOOZA
DEPUTY HEAD, GHS

process, Francis Kakooza assumed this role in July. Francis joined IDI just over 10 years ago, starting off as a lab scientist in the Research Programme. Prior to this appointment, he was the Project Manager of the Uganda Fleming Fund Country Grant in the GHS Programme. He is currently a PhD candidate in Molecular Epidemiology and Genomics at Makerere University.

PANDEMIC CONTROL

The government roll-out of accelerated mass vaccination campaigns marked a turning point in the vaccination exercise. All adults became eligible to receive the vaccine and vaccination of children commenced. With the US Centres for Disease Control and Prevention (CDC), IDI collaborated with MildMay Uganda, TASO, and Rakai Health Sciences Program to roll out three rounds of the regional accelerated mass vaccination campaigns in 51 districts and cities. Support included campaign coordination through emergency operations centres, provision of hired vehicles to districts during campaign periods, and support for data management. IDI supported risk communication activities, including regional launches of mass vaccination exercises in five health regions.

CONTRIBUTION TO ACHIEVING 21M COVID19 DOSES



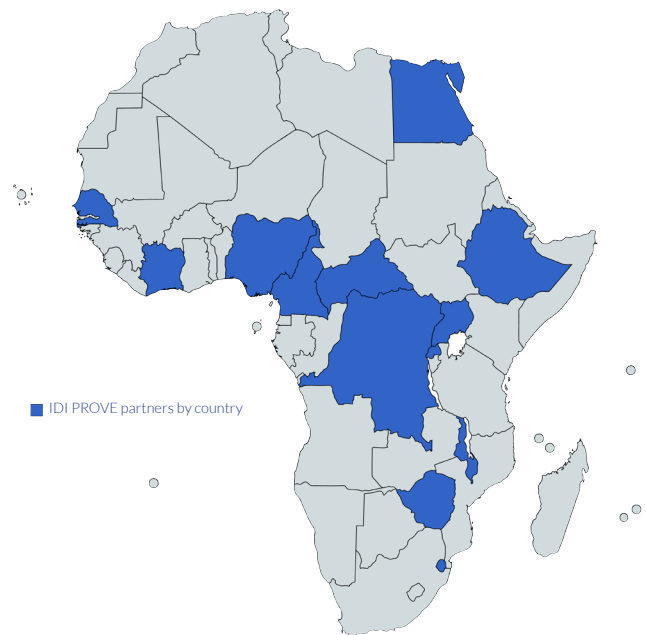
MASS VACCINATION

When Wakiso district, the largest district in Uganda by population, continued to report low coverage, IDI conducted a 2-month mass vaccination campaign funded by CORE Response in which 71,339 individuals got vaccinated, resulting in a 16.3% increase in coverage in people that had received the first dose of a COVID-19 vaccine in the district.



DIGITISATION OF DATA

With the **Monitoring and Evaluation Technical Support** programme, IDI recruited 455 data entrants who worked to clear the backlog in vaccination data. Within six months, the proportion of vaccination data-entered in the electronic registry had increased from 53% to 85%. To prevent subsequent accumulation, IDI worked with **Shifo Foundation** to pilot its Smart Paper Technology in West Nile, a strategy that the Ministry of Health subsequently recommended nationwide. The paper-to-digital solution eliminates manual data entry, automatically generates reports.



2022/2023 PLANS REGIONAL PROGRAMMING

IDI received a grant from **MasterCard Foundation** to serve as the Implementation Science Partner of the Africa CDC Saving Lives and Livelihoods vaccination program. Through this award, IDI and **AFREhealth** will work with in-country partners to evaluate the effectiveness of COVID-19 vaccines and provide scientific evidence on barriers and enablers of the vaccination program in 15 African countries. Within Uganda, IDI will expand its work on demand creation for COVID-19 vaccination through a new initiative of the **Rockefeller Foundation** and extend its collaboration with **US CDC** to strengthen routine immunization systems across the life course.



Dr Grace Najjuka, head of the National Microbiology Reference Laboratory at Uganda National Health Laboratories (UNHLS) hands the CAP Accreditation certificate to Dr Diana Atwine, Permanent Secretary, MoH



Laboratory staff in a mentorship session at the CAP accredited Microbiology Reference Laboratory at UNHLS



The IDI and Wakiso district Health teams during a COVID-19 vaccination outreach at the Bussi Islands, Wakiso.



A planning session for the Programme for Research on COVID-19 Vaccine Effectiveness (PROVE) project in Ethiopia.



Training of Red Cross COVID-19 vaccination Champions at the IDI McKinnell Knowledge Centre



GHS meeting to understand the Global Burden of AMR

ICORE LABORATORY

The IDI Core Laboratory is one of the region's leading providers of clinical and research laboratory services. The year 2021/2022 was marked with significant growth and key operational achievements. Despite the pandemic, providing accurate and quality laboratory testing services did not stop. Quality is one of IDI Core Lab's hallmarks and the laboratory maintained its College of American Pathologists (CAP) accreditation for the 19th year running without a citation.

SPOTLIGHT: SUPPORT TO UPDF

As part of its mandate to strengthen laboratory improvement process towards accreditation, the lab supports the training department to implement laboratory quality management systems based on the ISO 15189:2012 medical laboratories through the Department of Defence HIV/AIDS Prevention Programme. The lab provides technical assistance and builds capacity in the Uganda Peoples Defence Forces (UPDF) laboratories through audits, training and mentorships.

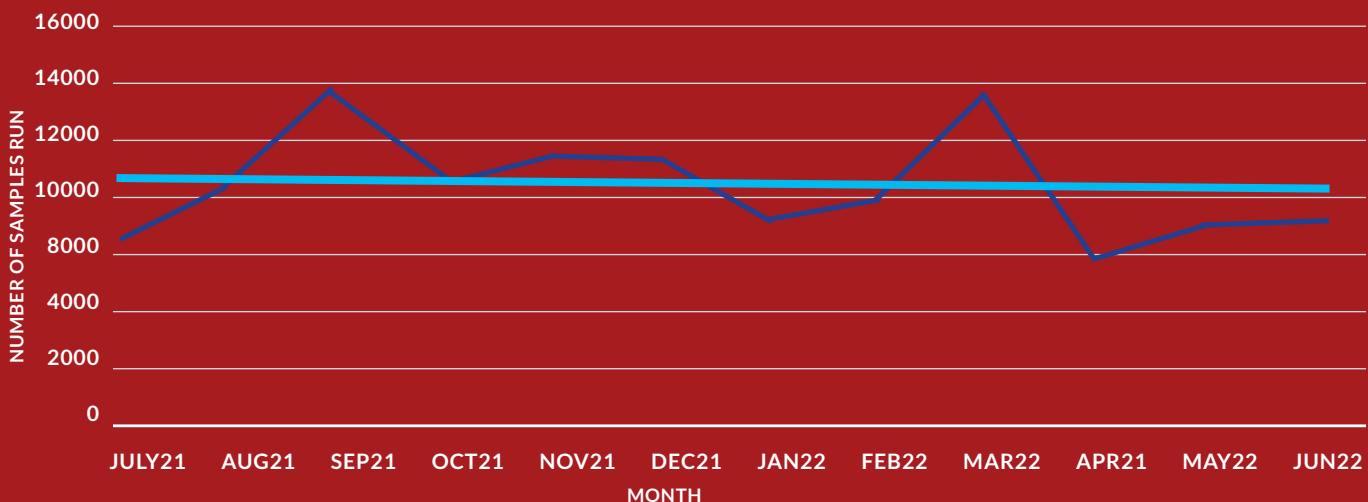
STRENGTHENING STORAGE CAPACITY

Storage facilities at the laboratory have expanded with the growing demand. As a critical component of the lab's ecosystem, the lab acquired modern ultra-low temperature freezers from Thermo Fischer Scientific with 24-hour temperature monitoring through a wireless system that notifies staff in the event of a power or mechanical failure.



The Core Lab has a mission to provide sustainable world class medical lab services, diagnostic capabilities, training and excellent customer service

SAMPLES TESTED AT THE IDI CORE LAB JUNE 2021 TO JUL 2022



The Laboratory's data quality is key and so standardized methods and procedures for sample handling and processing, sample testing, and data handling are used. This ensures that the data obtained from the IDI Core Lab is accurate and reliable.

TRAINING AND CAPACITY BUILDING

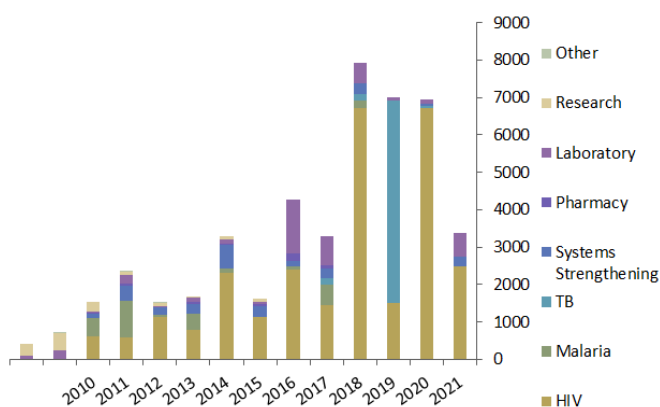
The Training Programme provides capacity development opportunities to enhance and maintain the competence of the healthcare workforce in Africa, for the prevention and management of HIV and other infectious diseases, with the aim of strengthening health systems in Africa. During the year, IDI implemented new and traditional trainings that supported roll out of various Ministry of Health approved treatment guidelines; in addition, IDI continued its support to the ministry's efforts to handle outbreaks; a total of 5,107 healthcare providers were trained.

KEY ACHIEVEMENTS

- Increased number of people trained online from 4% in FY 2020/2021 to 9.8%.
- Developed and conducted new relevant courses such as the alcohol based hand rub production, resource mobilisation, grant, financial management and compliance.
- The approach known as “Extension for Community Healthcare Outcomes” was initiated in seven military hospitals with 698 healthcare workers attending sessions on management of complex cases of HIV, an increase in number of continuous medical education sessions was noted.

- Two laboratories (Anaka General Hospital and Kitgum General hospital) supported by IDI through the USAID funded RHITES NORTH ACHOLI Activity were recommended for international accreditation to ISO 15189 by the South African National Accreditation System.
- Published a paper on “Feasibility of virtual-reality based training for optimizing COVID-19 case handling in Uganda” in the BMC Medical Education journal.
- Developed messages for sensitization of the public on COVID, Hepatitis B, Vaccination, HIV/AIDS, Malaria, dangers of self-medication.
- Transformed content for the sexual harassment training and supported its roll out to all IDI staff using the online platform.
- Provided HIV/AIDS and TB management training to over 400 medical students from Makerere university and Islamic University in Uganda; this is the highest number ever since this program started
- Partnered with UJIZI training platform to extend IDI training program coverage beyond Uganda
- With funding from CDC, established Alcohol Based Hand Rub Production Unit in Adjuman district.

55,709 TRAINED TO DATE



NEW PARTNERS AND INNOVATIONS

- The United States department of Defence provided resources to strengthen lab services in military hospitals through URC.
- The IDI e-learning platform was used to develop and roll out the sexual harassment course to all IDI staff.
- New technologies including artificial intelligence, Interactive Voice Response (IVR) and chat-bots were used to train 54 HWs and 500 VHTs on IPC in COVID-19 and to address COVID 19 vaccination hesitancy.

NEW INTER-PROGRAMME SUPPORT

- Inter-departmental collaboration enabled development and delivery of courses such as resource mobilization, grants, financial management and compliance course, alcohol-based hand rub and others.

SUPPORT TO MOH:

- Training and GHS department worked with the MOH teams to develop curricular in management of various aspects of HIV/AIDS and global health security.

- Built capacity for HIV management, disease surveillance, Infection Prevention and control (IPC), electronic integrated diseases surveillance and response (eIDSR) and the Alcohol Based Hand Rub preparation.

SUPPORT TO MAKERERE UNIVERSITY:

IDI developed an online IPC/COVID 19 prevention course which all students had to attend prior to reopening of institutions of higher learning.

Key Programme Achievers

- Felix Mutaryebwa and Pius Etam spear-headed SANAS accreditation of two labs in North Acholi.
- IDI e-learning team: Created online versions of IDI, MOH and Makerere University trainings including the sexual harassment course which every IDI staff has to undertake annually.



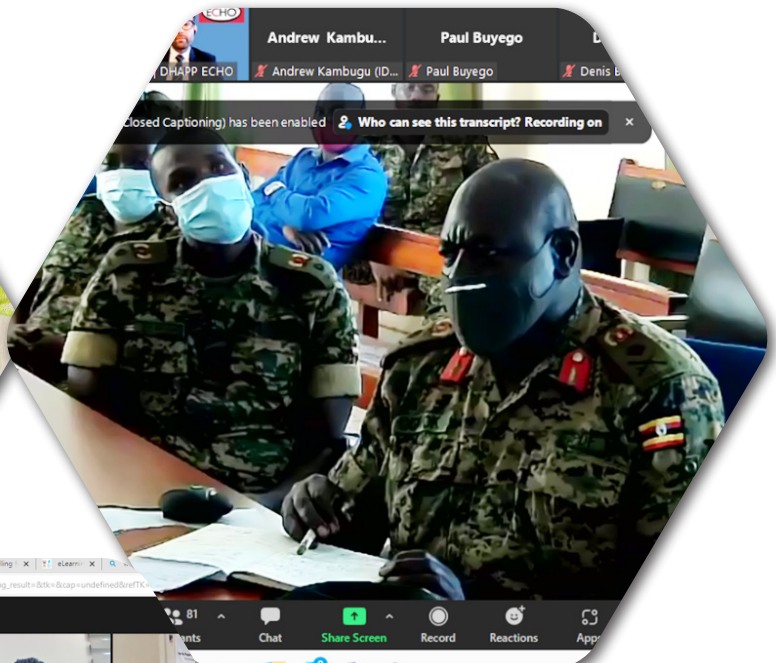
Felix Mutaryebwa



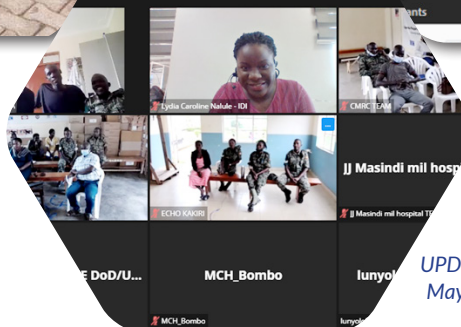
Pius Etam



Trainees of the Biosafety Biosecurity training



The launch of the UPDF HIV ECHO sessions on January 20th 2022 with Lt. Col. Dr Robert Zavuga Director HIV & AIDS Directorate at UPDF



UPDF Health facility participants attending the May 2022 ECHO session from their respective hospitals

PREVENTION CARE AND TREATMENT

COVID-19 VACCINATION PILOT

After consultative stakeholder engagements conducted to inform development of strategies to improve access and uptake of COVID-19 vaccines among the National Priority groups, the Ministry of Health earmarked the IDI Clinic for vaccine roll-out.

Out of the 8,000 patients cared for at the clinic, 20% have either diabetes or hypertension both of which increase their risk for severe outcomes with COVID-19. Starting October 2021, the Prevention, Care and Treatment (PCT) program participated in the pilot vaccination roll-out programme as an outreach centre under KCCA. PCT leveraged its specialised clinics for mobilisation of patients and integration of COVID-19 vaccination into routine clinic activities.

PCT implemented screening of vaccination status, data management and pharmacovigilance activities. Peer influencers were identified and trained as vaccination champions under the GIPA (Greater Involvement of Persons with HIV/AIDS) mandate and information on vaccination, safety, pharmacovigilance was included in the routine health talks. All patients were screened for vaccination status at every visit and the information updated in their health care documents. Those that expressed concern were counselled to address any questions they had.

OUTCOMES

- PLHIV screened=7258/8452 (85.9%).
- 9 out of 10 screened for Vaccination Status
- PLHIV vaccinated 6247(73.9%). Of whom 62.9% were vaccinated through the Point of Care vaccination services at IDI
- 7 in 10 at least vaccinated 1st Dose

MAJOR BARRIERS

- Patient hesitancy to get vaccinated due

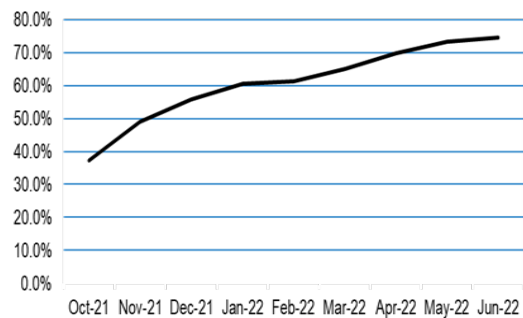
to fear of side effects, misinformation via media and respected peers that the vaccine was not safe for HIV patients among other often non-disclosed personal reasons.

- The multi-month drug refill model limited access of the program by the patients on the model owing to their appointments being months in the future.
- Vaccine stock-outs

RECOMMENDATIONS

- Continued advocacy and socio-mobilisation to combat hesitancy
- Interpersonal patient engagement strategies
- Scale-up of the Point of Care (PoC) Model to all PEPFAR facilities

Cumulative percentage COVID-19 vaccination coverage by 1st dose among PLHIV at PCT Mulago



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Website: www.health.go.ug

IN ANY CORRESPONDENCE ON THIS SUBJECT
PLEASE QUOTE ADM.105/269/01



Ministry of Health
P. O. Box 7272
Plot 8, Lourdel Road
KAMPALA
UGANDA

28th April, 2022

Director Regional Referral Hospital

Chief Administrative Officer
Attn: District Health Officer,

RE: COVID-19 VACCINATION AMONG CLIENTS RECEIVING SERVICES AT ART-ACCREDITED HEALTH FACILITIES.

The Uganda Ministry of Health is seeking to support increased COVID-19 vaccination coverage for clients using services at health facilities accredited to provide HIV antiretroviral therapy (ART).

This intervention aims to leverage national and PEPFAR-supported platforms to increase COVID-19 vaccination and strengthen health information systems that track COVID-19 vaccination coverage in Uganda. It will also build onto the success of a recent pilot conducted by the Infectious Disease Institute (IDI) where 61% (5,088/8,410 as of April 7th) of clients accepted to take the COVID-19 vaccine when offered it at an ART clinic in Mulago, Kampala.

ACADEMY FOR HEALTH INNOVATION

4TH ANNUAL HEALTH INNOVATIONS CONFERENCE



The two-day virtual conference, under the theme *Collaborating to Transform: Lessons Learned from the Pandemic*, was officially opened by Hon. Dr Monica Musenero, Minister of Science, Technology, and Innovation. Musenero encouraged all the innovators to collaborate and share ideas, "We need to realise the value of collaboration towards development in all sectors, including health. This will create progress and positive change for the general population as well as the quality of life." The conference was attended by participants from all over the world, including Denmark, Kenya, the USA, South Africa, and Tanzania. There was International and local organizational representation from the World Bank, United Nations Community Development Fund Digital, NITA-U, World Health Organization, KTA Advocates, The Medical Concierge Group, NFT Consult, and CENIT/GIZ-EAC. During the conference, the Academy team congratulated Romain Rutten upon his retirement from Johnson & Johnson - Janssen Research & Development where he served as Vice President, Health Information Sciences.

ARTIFICIAL INTELLIGENCE

The COVID-19 pandemic presented a number of healthcare challenges and it became critical to provide healthcare workers with decision-support tools in such circumstances. To support this end-to-end Artificial Intelligence (AI) and data systems for targeted surveillance and management of COVID-19 (COAST) and future pandemics was set up. A DSS (Decision Support System) is under development to aid healthcare workers in determining with precision which people living with HIV need to have a COVID-19 test. A prototype has been developed that demonstrates that AI and ML screening tools can be used to aid health workers' precision in determining who should go for a COVID-19 test. For more information, visit the Website - <http://coastug.org/>



The use of drones to carry samples across West Nile Moyo Hospital and Adjumani COVID-19 laboratories occurred during this period

HUB FOR ARTIFICIAL INTELLIGENCE IN MATERNAL, SEXUAL, AND REPRODUCTIVE HEALTH IN SUB-SAHARAN AFRICA (HASH)

With support from the International Development Research Centre (IDRC) and the Swedish International Development Cooperation Agency (SIDA) The Hub for Artificial Intelligence in Maternal, Sexual, and Reproductive Health in Sub-Saharan Africa (HASH) at the Academy is establishing a network of Pan-African Anglophone and Francophone researchers, organization and other stakeholders, working to enhance the use of AI and data technologies for MSRHR, with a focus on ethical AI development. In addition, the hub will support up to eight innovators to research and validate their ideas in the key thematic areas of maternal health, sexually transmitted infections (STIs), adolescent sexual reproductive health, and HIV. Follow us website; <https://hash.theacademy.co.ug/>

MEDICAL DRONES

Using drones we delivered 675 biological samples (674 COVID-19 & 1 serum) by drone from the hub in Moyo Hospital to the COVID-19 testing lab in Adjumani Hospital. Carried out 16 successful direct sample delivery flights between Moyo Hospital and Adjumani Covid-19 lab covering a distance of 528km. This accounts for 37.08% of the total distance for all the drone flights conducted in West Nile in the reporting period (1424km).

mHEALTH STUDY ON ADHERENCE

A randomised control trial of Youth living with

HIV/AIDS (YLWH) initiating anti-retroviral therapy (ART) to determine the effect of the Call for Life-Uganda (CFLU) mHealth tool on ART adherence conducted by the PhD scholar Dr Agnes Bwanika Naggirinya. The study demonstrated that: Overall, across the study sights, there was evidence of progressive viral load suppression for participants who used the Call For Life (an Mhealth service) youth package compared to those in the standard of care. Qualitative manuscript published in a Social Sciences & Humanities Open Journal <https://www.sciencedirect.com/science/article/pii/S2590291122000651>

CALL FOR LIFE

Newer syphilis point-of-care tests and combined HIV-syphilis tests are helping to increase syphilis testing in pregnancy across the region. Unless infected male partners of pregnant mothers are treated, there is a chance of re-infection. Despite initiatives to increase STI notification of male partners of pregnant women in Uganda, partner treatment rates remain low (around 17%). Causes of low notification include lack of knowledge, fear of partner violence, and lack of designated services for men at antenatal clinics.

With support and funding from Pfizer, the academy implemented a project that used a combination of mHealth tools to support, remind, and follow up on pregnant women to notify their partners. The sites for the project included Kampala City Council Authority clinics in Kisenyi, Kawaala, and Kiswa health centres. The project achieved 82% Women receiving Assisted Partner notification support.



A strategic engagement meeting with key stakeholders about the drones project



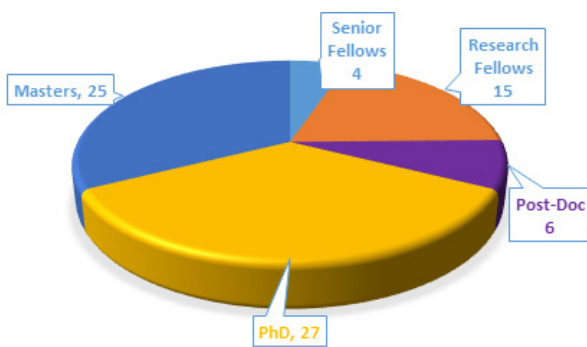
The Health Innovations Conference convenes key innovators in the health space

RESEARCH

The Research Programme goal is to produce outstanding, internationally-recognised scholarship in infectious diseases that can influence global policy and practice.

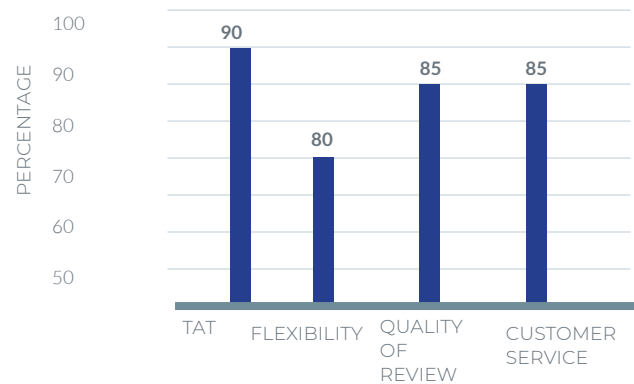
RESEARCH CAPACITY BUILDING

NUMBER OF SCHOLARS SUPPORTED



training for a team of multi-lingual (Senegal and Namibia) laboratory technicians.

IDI REC CLIENTS SURVEY RESULTS



TRANSLATION LABORATORY

The Translational Laboratory supported 43 research projects, 11 trainees, mostly from Makerere University (3 Post-docs, PhD fellows, 2 MS students and 4 trainees). Performed 17,901 tests, and produced 17 publications. The mass spectrometry work has been expanded to anti-fungal drug levels, and other drug levels in dried blood spot and hair samples.

DATA MANAGEMENT AND STATISTICAL SERVICES

- The DataFax unit processed a total of 76,605 records for projects in Uganda, sub-Saharan Africa, Asia and South America. The unit acquired **DFdiscover** license which allows for mobile-based application for tablet-based remote data collection and a web-based application, which leverages the existing browser.
- The **REDCap** team conducted management

THE AFRICAN CENTRE OF EXCELLENCE (ACE)

The African Centre of Excellence in Bioinformatics and Intensive Data Science at its core has a mandate to enhance research capacity and foster new scientific discoveries by African researchers.

The ACE won 5 grants including End-to-end AI and data systems for targeted surveillance and management of COVID-19 and future pandemics affecting Uganda (COAST), Epilepsy Self-Management And Resilience Technical App: EPILEPSY SMART APP, SPARCO Uganda: Strengthening Capacity for Clinical Care, Research & Training in SCD (SCRT Project), Open Data Science Platform (ODSP), Skills, Awareness and Policy in Africa (ASAP).

KEY PROGRAMME ACHIEVERS



MS. SYLVIA NAMANDA,
QA/QC Officer on HARVEST trial successfully completed the certification course from the Society of Clinical Research Associates and she is now a Certified Clinical Research Associate (Clinical Trial Monitor).



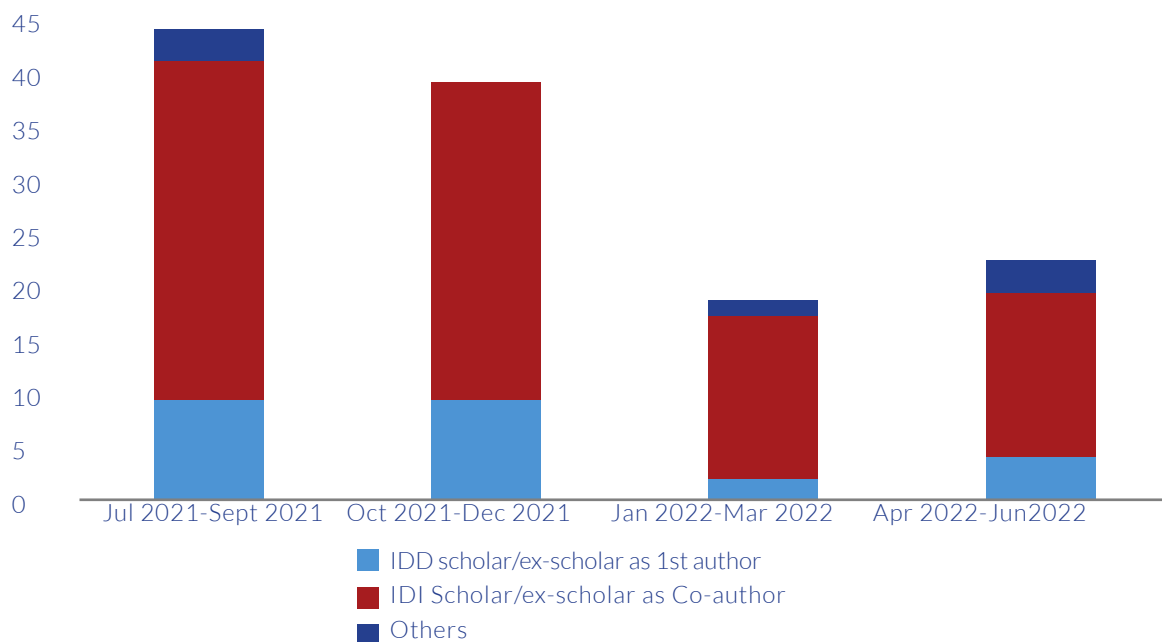
DR ANDREW MUJIGIRA,
Senior Research Scientist received the Journal of the International AIDS Society (JIAS) Impact Award at AIDS 2022 conference.



DR JONATHAN IZUDI,
one of the post-doctoral scholars from IDI received the Charles Boucher Award for the best abstract presentation at INTEREST 2022.

THE YEAR IN NUMBERS AND PUBLICATIONS

ARTICLES BY AUTHOR TYPE (TOTAL =115)



No. of active
research projects:

137

STUDIES

No. of new research
grants obtained:

14

GRANTS

No. of Research Forum
sessions held:

47

SESSIONS

SCIENCE FAIR 2022

The Science Fair was held virtually from 24-25 February 2022 under the theme: *A Tale of Two Pandemics: Harnessing Science in a Rapidly Changing Landscape*. The fair hosted 26 presentations, one “Meet the mentor session” and was attended by 501 people on day 1 and 373 on day 2.

CONTRIBUTIONS TO UGANDA NATIONAL COUNCIL FOR SCIENCE AND TECHNOLOGY (UNCST) AND MAKERERE UNIVERSITY

- Development of the National Research Biobanking Guidelines published by UNCST in 2021.
- Provision of rooms and infrastructure, hardware and software platform for MSc and PhD and other researchers in Bioinformatics at the ACE.
- Teaching and supervision of masters and PhD students of Makerere University.



Prof. Jessica Kissinger, a visiting professor from University of Georgia receiving an award for her outstanding contribution to the Breca Bioinformatics program



Virtual Reality surgical conference 2022 ACE in collaboration with VRiMS

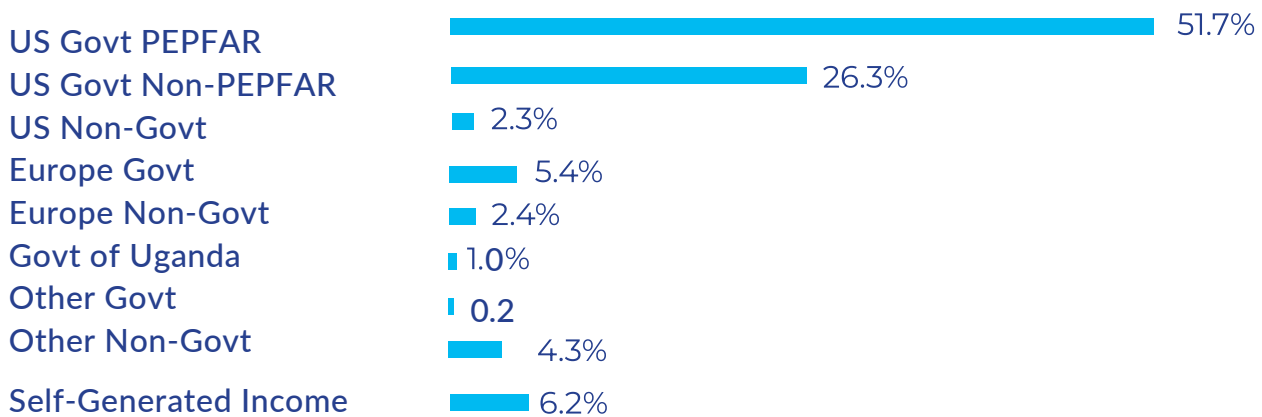


A research dissemination training

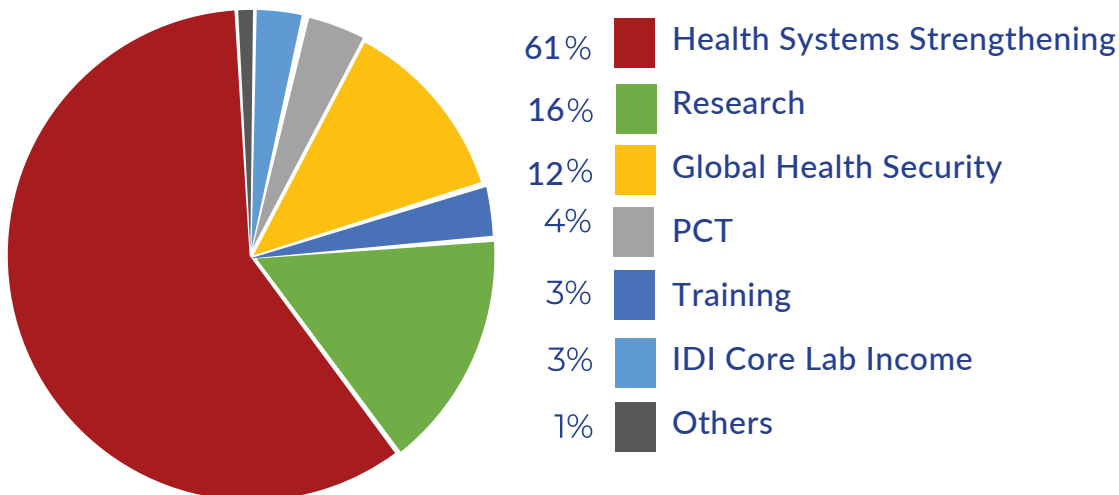
STRATEGIC PLANNING AND DEVELOPMENT

The Strategic Planning and Development (SPD) Department leads the IDI strategy cycle and coordinates IDI efforts to acquire, manage and report on resources entrusted to the Institute by its external partners.

FY 2021/2022 RESOURCE ACQUISITION AND UTILIZATION SUMMARY REVENUE BY SOURCE



REVENUE BY PROGRAMME AREA



STRATEGY/STRATEGIC INFORMATION:

Strategic initiatives this year covered several emerging issues /themes/organization units including institutional cost recovery guidelines, diversification plans, Information Systems Upgrade Enterprise-wide Digitalisation Initiatives and Bioinformatics/ Data science programming. These fed into Board discussions and decisions that will guide developments in these areas and provide a basis for integrating these key organisational themes/issues into the next 5-year (2023 to 2028) strategic planning.

GRANTS AND CONTRACTS MANAGEMENT:

Over 120 grants/sub grants and contracts/subcontracts were managed to a high degree of excellence during the year. The online Grants Expenditure and Monitoring System (GEMS) budget management system that was developed in-house and tested last year is now fully functional and deployed across all post contract grants. Continuous modifications and improvements are ongoing to optimize the system. The system provides real time grant expenditure tracking across the transaction cycle and produces budget performance data to support optimal decision-making. Many of IDI's Uganda partners have expressed interest in replicating GEMS functionality.

A screenshot of the GEMS dashboard

Total Requisitions: 18008



SUB GRANTING:

In the financial year 2021/2022, new partnerships were established with eight organizations within Kampala-Wakiso Region and 83 sub grants to implementing partners are currently in progress at IDI. A total of 13 organizations transitioned from the Key Populations Investment Fund (KPIF) grant to Kampala Health Project (KHP) whereas the contractual agreements for nine organizations ended. As a way to enhance sub grantee sustainability, IDI focused on building the capacity of the organizations in different aspects such as: financial management, gender-based violence and basic counselling targeting peers, infection, prevention and control, quality improvement, data management and usage among others. IDI conducted several trainings in resource mobilization and grants management for grantees receiving CDC funding. In total, 150 individuals from 25 organisations hailing from five regions of Uganda were trained.

BUILDING CAPACITY FOR REGIONAL IMPLEMENTATION:

During the year, SPD supported the award of sub-grants to partners across 15 African countries with whom IDI is co-implementing the Program for Research on COVID-19 Vaccine Effectiveness (PROVE). PROVE is an implementation research project funded by the **MasterCard Foundation** through Africa CDC. Sub-grantees identified and vetted through this project will form a network through which IDI can rapidly roll out research projects across the African region.

COMPLIANCE:

IDI carried out 12 financial reviews for its 83 sub grantees to ensure compliance with funder guidelines. Institutional single audits for USAID, CDC and NIH were successfully supported. Eighteen grants team members attended a three-day "CDC and USAID' Financial Management and Compliance 2022 and Beyond" training to refresh their knowledge of US government compliance guidelines.

IPEOPLE & CULTURE

SPOTLIGHT

This year the Human Resources function was carved out of the Finance and Administration Department where it had been nestled for the past 19 years. The Institute board and management appointed Paul Ramanda Rugambwa as the inaugural head of the Human Resource department and he took up his position on the Senior Management Team in February 2022. Paul brings along 17 years' experience in HR practice and leadership, having led HR teams in the private sector across East and Southern Africa.

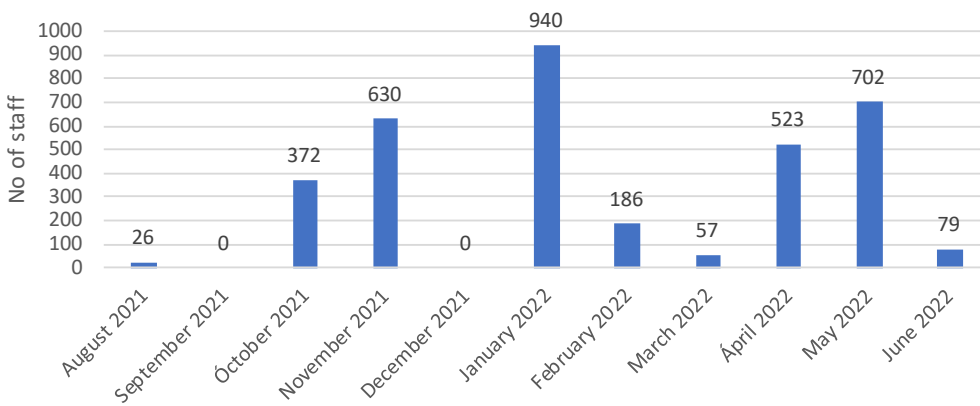


PAUL RUMANDA RUGAMBWA
HEAD OF HUMAN RESOURCES

STAFF CAPACITY BUILDING

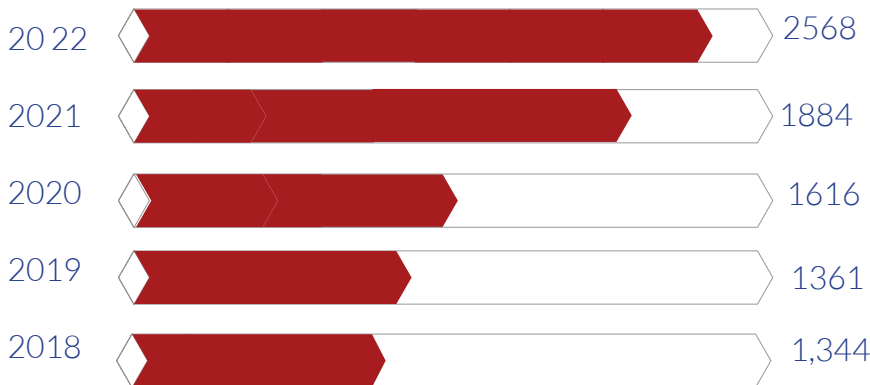
As at June 2022, IDI employs 2,568 staff. The Human Resource function has purposed to intentionally build staff capacity this year through a variety of training programmes.

NUMBER OF STAFF TRAINED PER MONTH

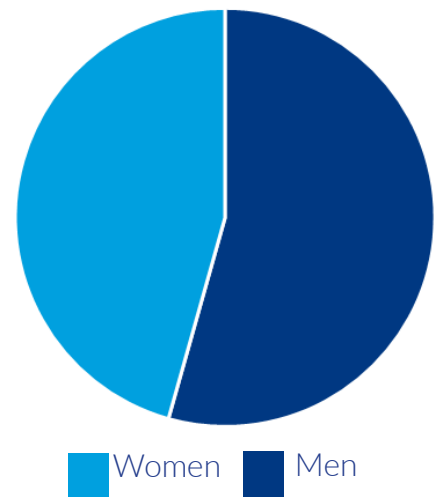


3,515
staff were trained in FY21/22

STAFF GROWTH OVER THE YEARS



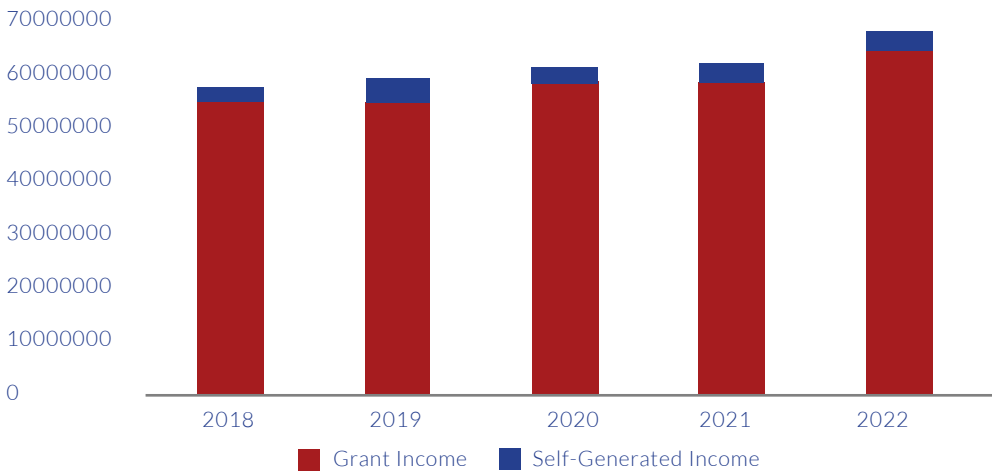
STAFF BY GENDER



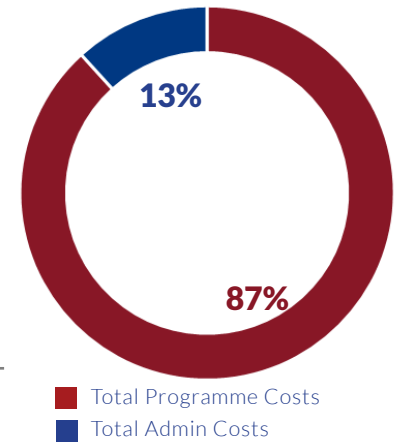
FINANCIAL SUMMARY

The amounts in the charts have been derived from our audited annual financial statements.

ANNUAL FINANCIAL TURNOVER US\$



HOW WE USE FUNDS 65,169,480US\$



IDI STATEMENT OF PROFIT OR LOSS FOR THE YEAR ENDED JUNE 2022

	2022 US \$	2021 US \$
Income		
Grant income	61,259,254	56,058,227
Self-generated income	3,883,904	3,531,269
Interest income	26,322	25,972
Total income	65,169,480	59,615,468
Expenditure		
Salaries and benefits	24,566,743	22,324,002
Program expenses	29,046,591	26,234,288
Transportation	3,358,236	3,947,904
Office expenses	1,708,947	1,391,432
Facilities expenses	3,030,642	2,656,346
Administration expenses	1,856,133	2,131,689
Direct laboratory tests	539,870	471,641
Foreign exchange loss gain	(2,222)	(34,720)
Total expenditure	64,104,940	59,122,582
Surplus for the year	1,064,540	492,886
Other comprehensive income	-	-
Total comprehensive income for the year	1,064,540	492,886

IDI STATEMENT OF FINANCIAL POSITION

AS AT JUNE 2022

	2022 USD	2021 USD
ASSETS		
Non-current assets		
Property and equipment	3,928,211	4,213,337
Right of Use Asset	412,496	100,241
	<u>4,340,707</u>	<u>4,313,578</u>
Current assets		
Inventories	171,500	258,629
Receivables and prepayments	6,156,285	5,032,157
Cash and cash equivalents	22,597,301	18,495,323
	<u>28,925,086</u>	<u>23,786,109</u>
Total assets	<u><u>33,265,793</u></u>	<u><u>28,099,687</u></u>
FUNDS AND LIABILITIES		
Fund Balance		
Accumulated surplus	15,512,538	14,447,998
LIABILITIES		
Non-current liabilities		
Retirement benefit obligation	242,172	808,224
Deferred Income	13,674,259	10,602,572
Lease Liability	273,773	64,848
	<u>14,190,204</u>	<u>11,475,644</u>
Current liabilities		
Payable and accrued expenses	3,435,640	2,137,550
Lease Liability	127,411	38,495
	<u>3,563,051</u>	<u>2,176,045</u>
Total funds and Liabilities	<u><u>33,265,793</u></u>	<u><u>28,099,687</u></u>



IDI was selected as host organisation for the 17th Annual INTEREST meeting with a multi-partner committee put together by the Institute's executive director



Celebrating Nurses Day at the PCT Clinic



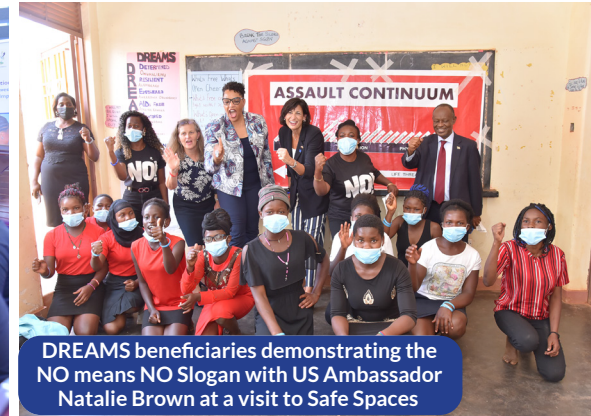
The Bioinformatics Symposium



Accelerated Mass Vaccination Programme for COVID-19



The IDI Science Fair is held every calendar year in the first quarter



DREAMS beneficiaries demonstrating the NO means NO Slogan with US Ambassador Natalie Brown at a visit to Safe Spaces



The artist Kwizera painting during the INTEREST2022 Conference



International Accreditation of the National Microbiology Laboratory



COVID-19 Training for partner organisations



Youth counselling sessions at Kawaala HCIII



Experimenting the donning and doffing during the Ebola Outbreak



HSS-IS Nomad implementation system training



Good Clinical Practice training for Academy staff



Yellow fever dissemination meeting



Team building activity of the IDI Strategic Planning and Finance Departments



IDI Executive Director at the Annual HIV Clinical Forum ahead of the INTEREST2022 Conference



Peter Kilmarx, Acting Director, Fogarty International Centre hosted at the IDI Core Lab



CDC Country Director, Lisa Nelson's visit to Drop In Centres



Launch of the National House to House Polio Immunization Activities



Celebrating the Women in science



Alwi Laboratory and ART Clinic in North Acholi before renovation



Alwi Laboratory and ART Clinic in North Acholi after renovation by IDI



The first Citizen's Jury in Uganda on the ethical use of electronic medical records in research



Saving Mothers Giving Life Frame Workshop



Launch of the PROVE project at the 5th Annual AFRE-Health Symposium in Harare, Zimbabwe



IDI PCT Team reciting a poem during the World AIDS Day Celebrations



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This report was compiled and
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