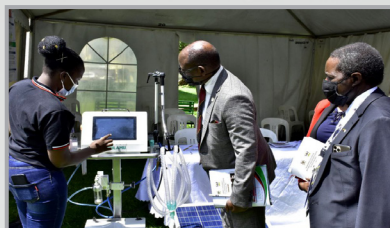




MAKERERE
UNIVERSITY

COLLEGE OF HEALTH SCIENCES

ANNUAL REPORT 2021



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MISSION & VISION

Values



Mission

Vision

Values

To impact the National Health system through transformational teaching, Research and Innovation for societal development

To be a thought leader of knowledge generation for societal transformation and development

Diversity
Professionalism
Social Accountability
Excellence and Quality
Equity and Social Justice
Innovativeness and Adaptability to Change



Mission

Vision

Values



Principal's Message

I hereby present to you the Makerere University College of Health Sciences (MakCHS) annual report for 2021. This report provides an overview of activities at MakCHS under our mandates of teaching and learning, research, and service delivery during 2021.

The MakCHS continues to lead the national response to the COVID-19 pandemic through case management, research on advances in SARS-COV2 prevention and treatment intervention, as well as supporting faculty and students to adapt to the new learning environment of blended approaches to sustain teaching and learning activities during the COVID-19 pandemic period. I wish to congratulate MakCHS staff and students upon the resilience exhibited through the COVID-19 pandemic and emerging stronger, with various approaches to blended learning to complement the clinical/practical training approaches.

It is my pleasure to congratulate all staff who have received promotions, new research fund awards and publications during this period. You continue to raise the bar of the College of Health Sciences as we strive to lead in providing transformational education and research to improve service delivery and well-being of all the communities we serve. I extend my gratitude to all our stakeholders including but not limited to all MakCHS staff, students, alumni, collaborators, partners, funders, patients, and doctors for the exemplary multi-disciplinary teams that continue to deliver high quality education and health care programs.

Our major challenge remains to innovate, develop, produce, and sustain local solutions to emerging global health challenges including the large burden of emerging and re-emerging infections as well as the burden of non-communicable diseases.

I therefore urge all faculty and students to seek and grab all opportunities for each one to utilise their role in this space as we advance science initiatives to impact lives in Uganda, Africa and globally. On behalf of the leadership at MakCHS, I pledge our unwavering efforts to provide all relevant support to facilitate you to achieve your career dreams for 2022 at MakCHS.

Sincerely

Professor Damalie Nakanjako MBChB, MMED, PhD
PRINCIPAL - COLLEGE OF HEALTH SCIENCES



Message from the Deputy Principal

Welcome

My sincere greetings to the entire fraternity of Makerere University, College of Health Sciences. I welcome all the new members that have recently joined us, the students, academic staff, administrative staff, support staff and partners. I congratulate you all for making it to this esteemed University and College.

Appreciation

I extend my appreciation to the administration of Makerere University for their continued support on the prevalent research and community service agendas that are being carried out at the College of Health Sciences. While there was a major pandemic at a time when the college was running its activities, we suffered setbacks that affected our academics, research and community service but I thank you all for not losing focus and for your tireless efforts that saw these activities thrive; after the pandemic and activities returning to normal. I pray that the good Lord continues to hold our mighty family together so that we achieve even greater academic and research excellence.

I thank all of you for fronting Makerere University College of Health Sciences and I ask that we keep the candle burning as we build for the future.

Dr. Isaac Kajja - Associate Professor & Deputy Principal
COLLEGE OF HEALTH SCIENCES



MAKCHS LEADERSHIP



Prof. Damalie Nakanjako
(Principal)



Assoc. Prof. Isaac Kajja
(Deputy Principal)

DEANS OF SCHOOLS



Prof. Rhoda Wanyenze
(Dean School of Public Health)



Assoc. Prof. Annetee Olivia Nakimuli
Dean School of Medicine



Prof. Moses L. Joloba
(Dean, School of Biomedical Sciences)



Dr. Freddy Kitutu
Ag. Dean School of Health Sciences



Prof. Josephant Byamugisha
Head University Hospital



Assoc. Prof. Frederick Edward Makumbi
Deputy Dean School of Public Health



Dr. Kaddu Mukasa
(Deputy Dean-School of Medicine)

Heads of Departments



Prof. Moses Galukande
(Surgery)



Dr. Patrick Sekimpi
Head - Orthopaedics



Dr. Elizabeth Ekirapa
(Health Policy, Planning & Management)



Assoc. Prof. Esther Buregyeya
(Disease Control & Environmental Health)



Prof. Pauline Byakika
(Internal Medicine)



Dr. Mukonzo Jackson
(Pharmacology)



Dr. Patrick David Katete
(Immunology & Molecular Biology)



Dr. Henry Kajumbula
(Microbiology)



Prof. William Buwembo
(Anatomy)



Dr. Hawa Nalwoga
(Pathology)



Dr. Robert Kalyesubula
(Physiology)



Assoc. Prof. Dralega Anguyo
(Optometry)



Assoc. Prof. Noah Kiwanuka
(Epidemiology & Biostatistics)



Dr. Ezekiel Mupere
(Paediatrics)



Dr. Arinaitwe Muwanguzi
Patience
(Nursing)



Dr. Onyango Jude Tadeo
(Family Medicine)



Dr. Alison Kinengyere
Albert Cook Library



Dr. Noeline Nakasujja
(Psychiatry)



Dr. Rita Nassanga
(Radiology)



Dr. Herbert Muyinda
(CHDC)



Dr. Annette Kutesa
(Dentistry)



Prof. Joan Kalyango
(Clinical Epidemiology Unit)



Ms. Ahabwe Precious
(Speech & Language Therapy)



Dr. Tony Stone
Luggya
(Anaesthesia)



Dr. Musa Sekikubo
(OBS and Gyn)



Dr. Stephen Mpungu
Kiwuwa
(Biochemistry)



Dr. Otimi Juliet Sengeri
(Ophthalmology)

Administrative Units at the College of Health Sciences



Batamye Herbert
(College Registrar)



Michael Baine
(College Bursar)



Sarah Nakibuka
(Procurement Manager)



Josephine Nalweyiso
(Human Resource Officer)



Bob Shine
(Head IT)



Irene Rebecca Namatende
(Quality Assurance Manager)



Silver Imadu
Admin. Secretary-Principals Office



Norah Namirembe
Admin Assistant



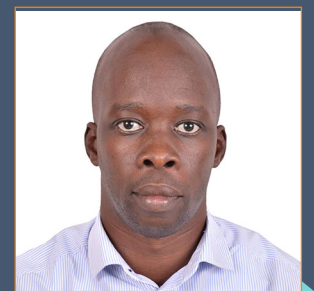
Zaam Ssali
Principal Communication Officer



Susan N. Byekwaso
International Office



Modesai Tayebwa
(Senior Grants Manager)



Abraham Matovu
Admin Assistant HR - Office



Rachel Mirembe
Senior Admin. Assistant
Principals Office



Hildah Kwarisiima
(Procurement Assistant)



Melissa Nakiyaga
Grants Office



Bonny Tusiime
Grants Office





OVERVIEW OF THE COLLEGE

The Makerere University College of Health Sciences traces its history from 1924 when Makerere University Medical School was established as a medical training college; the oldest medical training University unit in East Africa, and subsequently became a Faculty of Medicine. The Faculty of Medicine expanded medical training to other health professionals including pharmacists, dental surgeons, nurses, radiographers, biomedical engineers, environmental scientists; among others, hence the transformation to a College of Health Sciences (MakCHS). MakCHS consists of the School of Medicine, School of Public Health, School of Public Health and School of Health Sciences; and continues to lead health research and innovations at Makerere University and the region.

The School of Medicine of Medicine which hosts 4 Bachelors' degree programs; Bachelor of Medicine and Surgery, Bachelor of Medical Radiography, Bachelor of Speech and Language Therapy, and Bachelor of Palliative care (offered at the affiliate Hospice); as well as 17 post-graduate programs in clinical fields including Internal Medicine,

Obstetrics and Gynaecology, Ophthalmology, Orthopaedics, Paediatrics and child health, Psychiatry, Ear, Nose & Throat, Anaesthesia, Family Medicine, Surgery, Neurosurgery, Clinical Epidemiology, Health Professions Education, Emergency Medicine, PhD in Medicine and the PhD in Health Sciences.

The School of Health Sciences hosts 5 Bachelors' programs (Bachelor Science in Nursing, Bachelor of Dental Surgery, Bachelor of Optometry, Bachelor of Dental Technology and Bachelor of Pharmacy) and 5 graduate programs (MSC Dentistry, MSC Pharmacology & Therapeutics, MSC Nursing, MSC Pharmaceutical & Health supplies management and MSC Pharmacognosy).

The School of Public Health hosts the Bachelors in environmental Science and 9 graduate programs (Master of Public Health-Physical and distance learning, MSC Biostatistics, MSC Disaster management, Master of Public Health Nutrition, MSC Health informatics, MSC in Health Science Research, MSc Monitoring & Evaluation and doctorate of Public Health).

The School of Biomedical Sciences hosts the Bachelor of Biomedical Engineering, Biomedical Sciences, and Cytotechnology and 9 graduate programs including Master of Science degrees in Immunology & Clinical Microbiology, Pathology, Pharmacology, Physiology, Bioethics, Bioinformatics, Human Anatomy and doctoral programs in Biomedical Sciences and Bioinformatics.

Through the four schools, the College of Health sciences delivers within the mandate of Makerere University; teaching and learning, research and innovations and service to community. Overall, the college has a total of **about 3400 students and 32% of these are graduate students**; spread across thirteen undergraduate programs and thirty-one graduate programs.

Medical Training and Health care: The clinical teaching sites are located at Mulago National Referral Hospital, Kawempe Referral Hospital, Specialized Women and Neonatal Hospital, Kiruddu Referral Hospital, Butabika Hospital and several health facilities in several parts of the country for the community-based education and research program.

Research and Innovations: The College of Health Sciences is a leader in health research in the East African region; working with both academic and other partners (local and international) to address the needs of the population through research to influence policy and practice.

Teaching and Learning Approaches: MakCHS employs student-centered learning approaches have been adopted to develop graduates that are life-long learners, with the competences required to serve the community of stakeholders. Health professions training at CHS emphasizes competence-based learning, self-directed study, and community-based education and research to maximize development of students who are problem solvers. All curricula have embedded cross-cutting courses as required; including health professionalism, research methods, scientific writing among others, to develop confident, pragmatic graduates with clinical, academic scholarly and soft skills to contribute widely to the global community.

This report is a presentation of the activities of the in the mandates of teaching, clinical services and research for the year 2021.



TEACHING AND LEARNING

71st Graduation Ceremony - May, 2021

Graduation lists for undergraduate and graduate students were successfully prepared and submitted to Senate in preparation for the 71st graduation ceremony of Makerere University.

Number of graduands per School for the May 2021 Graduation:

Undergraduate Students

| No. | School | No. of Students | Percentage |
|-----|--------------------|-----------------|------------|
| 1. | Medicine | 232 | 51% |
| 2. | Biomedical Science | 75 | 16% |
| 3. | Health Science | 95 | 21% |
| 4. | Public Health | 53 | 12% |
| | Total | 455 | 100 |

Graduate Students

| No. | School | No.. of Students | Percentage |
|-----|---------------------|------------------|------------|
| 1. | Medicine | 148 | 62% |
| 2. | Biomedical Sciences | 25 | 11% |
| 3. | Health Sciences | 15 | 6% |
| 4. | Public Health | 50 | 21% |
| | Total | 238 | 100 |



The College produced 10 Doctor of Philosophy (PhD) graduands at the 71st graduation ceremony held on 17th May 2021 (see Table below).

| No. | School | Name | Title | Award |
|-----|---------------------|------------------------------|--|-------|
| 1 | Biomedical Sciences | ANDAMA Onubia Alfred | Evaluation of novel breath-based biomarkers and other sputum and non-sputum based, biomarker-based tests for TB screening and diagnosis | PhD |
| 2 | Biomedical Sciences | BAINGANA Rhona (Ms) | Prevalence of Helicobacter pylori infection during pregnancy and influence on the pregnancy anemia intervention package in Uganda among mothers at Kawempe Health Centre | PhD |
| 3 | Biomedical Sciences | TUKWASIBWE Stephen | Role of Killer-cell Immunoglobulin like Receptors and Human Leukocyte Antigens in Transmission and Severity of Malaria in Uganda. | PhD |
| 4 | Public Health | BAGONZA Arthur | Feasibility and Effectiveness of Peer Supervision on Pediatric Fever Treatment among Registered Private Drug Sellers in East and Central Uganda | PhD |
| 5 | Public Health | BATAMULIZA Kaitesi Mukara | Prevalence of ear infections and care seeking practices in children under five in a district of Kigali city, Rwanda | PhD |
| 6 | Public Health | BUKENYA Nnakate Bukonya (Ms) | Pregnancy Planning and Utilization of Maternal Health Services by Female Sex Workers in Uganda | PhD |
| 7 | Public Health | INAMAHORO Chantal (Ms) | Effect of community Health worker compared to mother led positive deviance health approach on recovery of moderately malnourished children under five years in Kirundo and Karusi provinces in Burundi | PhD |
| 8 | Public Health | IRAMIOT Jacob Stanley | Molecular Epidemiology of Antimicrobial Resistance at A Human-Animal Interface in Pastoralist Community of Kasese District, Uganda | PhD |
| 9 | Medicine | OPIKA Opoka Robert | Severe anemia in Ugandan children under 5 years: Implementation research on its prevalence, management and outcomes | PhD |
| 10 | Medicine | SANYA Richard Edwin | Helminths and metabolic outcomes in rural and urban Uganda. | PhD |

LEADERSHIP TRAINING FOR ACADEMIC STAFF

The first of a series of leadership training workshops for academic leaders at MakCHS including Deans, Heads of Departments, Professors and Associate Professors was held on 2nd June 2021 at Imperial Royale Hotel. The theme for the workshop was “Leadership Starts with Me”. The objectives of the workshop were to: (i) Strengthen the internal cohesion and unleash potential of the leadership team across the College through Systemic Team Coaching, and (ii) Strengthen leadership and management competences of individuals through an online training with the University of Washington’s Department of Global Health and Imprint Uganda. The dates for the next sessions were to be shared in September 2021.



Professor Damalie Nakanjako presenting at the Leadership Training Workshop held at Imperial Royale Hotel, Kampala



Group discussion at the Leadership Training Workshop at Imperial Royal Hotel, Kampala



Some of the MakCHS academic leaders attending Leadership Training Workshop at Imperial Royale Hotel, Kampala

One of the sessions was offered by Imprint (U) LTD consultants under the theme “Leadership begins with me”. An interesting paper was discussed entitled, “What Leaders Really Do” by John P. Kotter; published in the Harvard Business Review. John P. Kotter highlights, “Leaders don’t make plans; they don’t solve problems; they don’t even organize people. What leaders really do is prepare organizations for change and help them cope as they struggle through it”. Subsequent sessions will be scheduled to take MakCHS leaders through various steps of developing as a functional, efficient and productive team.

Community Based Education Research and Services (COBERS):

COBERS is a key component of training health workers at MakCHS. The MakCHS has partnered with Health facilities all over Uganda to allow medical students interface with the community early in their training as a strategy to develop graduates who are well prepared and adaptable to serve our communities.

Evaluation of COBERS training sites the College Management:

The team from MakCHS comprised Professor Damalie Nakanjako, Principal MakCHS; Associate Professor Isaac Kajja, Deputy Principal; Professor Sarah Kiguli, senior staff and educationist at MakCHS and other COBERS supervisors visited COBERS facilities within the Kampala Metropolitan area including Wakiso Health Centre IV, Ndejje Health Centre IV, Alive Medical Services, Namuwongo, St. Stephen's Hospital, Mpererwe and Kasangati Health Centre IV.

The team appreciated the management and tutors at the various COBERS sites for training MakCHS medical students for over 10 years. The team noted that there was need to conduct re-fresher training on COBERS processes since the tutors at the COBERS sites have continually been changing over the years. To implement the COVID-19 SOPs by reducing student numbers at each site, the team recommended that sites such as Kasangati Health Centre which was not taking on students should be reactivated.



Assoc. Prof. Kajja Isaac, Dr. Ian Munabi and Dr. Besigye Innocent with Dr. Kabaazi (In-charge) at Kasangati Health Centre IV



From right - Assoc. Prof. Isaac Kajja, Dr. Ian Munabi and Dr. Innocent Besigye with the Doctor and Sister incharge at Ndejje Health Centre IV



Prof. Nakanjako Damalie, Assoc. Prof. Kajja Isaac and Prof. Kiguli Sarah meeting with the management of Alive Medical Services



Assoc. Prof. Isaac Kajja, Dr. Munaabi Ian and Dr. Innocent Besigye visiting Wakiso Health Centre IV

Academic Teaching

Given the challenges of the COVID-19 pandemic, some of the teaching activities for academic year 2019/2020 were carried forward to 2021.

Semester II Academic Year 2019/2020

The semester was completed successfully, with the examinations done, marked and the results presented and considered in the School Academic Boards and forwarded for approval in the College Academic Board.

Recess Semester Academic Year 2019/2020

The Recess Semester was also successfully completed. The examinations were also done, evaluated and the results were presented and considered in the School Academic Boards and forwarded for qualifying in the College Academic Board.

Student Academic Excellence

Students with excellent performance are awarded either Vice Chancellor's Award or Dean's Award. During the 71st Graduation ceremony the following students from the College received these awards.

| No. | Registration | Names | School | CGPA | Award |
|-----|---------------|---------------------------|--------------------|------|------------------------|
| 1 | 17/U/18579 | ATAI Faith | Public Health | 4.46 | Vice Chancellor's list |
| 2 | 16/U/1122 | SSEKALO Alex | Biomedical Science | 4.51 | Vice Chancellor's list |
| | | | | | |
| 1 | 17/U/1815 | AMPERIIZE Mathius | Public Health | 4.36 | Dean's list |
| 2 | 17/U/3463/PS | BALINDA Emmanuel | Public Health | 4.35 | Dean's list |
| 3 | 17/U/1895/PS | ODIA Francis | Public Health | 4.34 | Dean's list |
| 4 | 17/U/18813 | LOCHORO Godfrey Achuka | Public Health | 4.32 | Dean's list |
| 5 | 17/U/6039/PS | MAYEMBA Samuel | Public Health | 4.29 | Dean's list |
| 6 | 17/U/8021/PS | NAMAKULA Lydia Nabawanuka | Public Health | 4.29 | Dean's list |
| 7 | 17/U/8789/PS | NANYONJO Genevieve Gloria | Public Health | 4.27 | Dean's list |
| 8 | 17/U/1896/PS | OGWANA Ikol Rachael | Public Health | 4.25 | Dean's list |
| 9 | 17/U/19886/PS | KASIBANTE Emmanuel | Public Health | 4.23 | Dean's list |
| 10 | 17/U/295 | JEMBA Pius | Public Health | 4.22 | Dean's list |
| 11 | 17/U/19679/PS | AUMA Christine | Public Health | 4.21 | Dean's list |
| 12 | 17/U/1949/PS | ABASIRA Trinity Mungufeni | Public Health | 4.19 | Dean's list |
| 13 | 17/U/20360/PS | NTULU Rogers | Public Health | 4.18 | Dean's list |
| 14 | 17/U/19577/PS | AKUMU Stella Ayita | Public Health | 4.17 | Dean's list |
| 15 | 17/U/6780/PS | MUWANGA Valerie Muwombefu | Public Health | 4.16 | Dean's list |

| | | | | | |
|----|---------------|---------------------------|-----------------------------|------|-------------|
| 16 | 17/U/8144/PS | NAMBAJJWE Molly | Public Health | 4.13 | Dean's list |
| 17 | 17/U/7095/PS | NABUKALU Jalidah | Public Health | 4.10 | Dean's list |
| 18 | 17/U/5911/PS | MAKWASI Phillip Isreal | Public Health | 4.06 | Dean's list |
| 19 | 17/U/19564/PS | AKELLO Rebecca | Public Health | 4.05 | Dean's list |
| 20 | 17/U/1818 | BAGUMA James Natweta | Public Health | 4.00 | Dean's list |
| 21 | 16/U/571 | MANIRAGENA Janvier | Biomedical Science | 4.39 | Dean's list |
| 22 | 16/U/368 | KASOZI Derrick | Biomedical Sciences | 4.15 | Dean's list |
| 23 | 16/U/19462/PS | KAKURU Racheal | Biomedical Sciences | 4.06 | Dean's list |
| 24 | 17/U/438 | KOBUSINGE Diana Asaba | Health Sciences | 4.10 | Dean's list |
| 22 | 17/U/963 | NYAKATO Samalie | Health Sciences | 4.09 | Dean's list |
| 23 | 17/K/18560/PS | MILKAH Wangechi Kinyua | Health Sciences | 4.04 | Dean's list |
| 24 | 17/U/20738/PS | NAKINTU Robinah Christine | Medicine | 4.35 | Dean's list |
| 25 | 15/U/1011 | NKALUBO Charles | Medicine | 4.32 | Dean's list |
| 26 | 15/U/19717/PS | TUMUSIIME Titus | Medicine | 4.32 | Dean's list |
| 27 | 15/X/21121/PS | DHOL Samuel Ayuen | Medicine | 4.29 | Dean's list |
| 28 | 15/U/984 | NDAWULA Josephine Caren | Medicine | 4.22 | Dean's list |
| 29 | 15/U/1103 | OMONGIN Moses | Medicine | 4.19 | Deans' list |
| 30 | 15/U/1172 | SSEBANOBÉ Julius | Medicine | 4.13 | Dean's list |
| 31 | 15/U/19599/PS | ATWIINE Hope | Medicine | 4.07 | Dean's list |
| 32 | 15/U/7997/PS | MUHENDA John | Medicine | 4.07 | Dean's list |
| 33 | 15/U/323 | KABUYE Pius | Medicine | 4.07 | Dean's list |
| 34 | 17/U/20771/PS | BABIRYE Betty Wanyana | Medicine | 4.04 | Dean's list |
| 35 | 15/U/301 | ISINGOMA Simon | Medicine | 4.01 | Dean's list |
| 36 | 17/U/20729/PS | MAISO Fred | Medicine | 4.01 | Dean's list |
| 37 | 15/U/1136 | RUTAYISIRE Meddy | Medicine | 4.00 | Dean's list |
| 38 | Bachelor | WONASOLO Denis | Hospice and Palliative care | 4.11 | Dean's list |
| 39 | Diploma | LAKER Joan | Hospice and Palliative care | 4.31 | Dean's list |

| No. | Name | School | Award |
|-----|-----------------|--------|--|
| 1. | Rawlance Ndejjo | MakSPH | Velji Young African Award for Global Health Excellence 18th March 2021 |

Orientation Programmes

Orientation programmes for both undergraduate and graduate students were successfully organised and held virtually. Admission letters and all requisite documentation were issued to the admitted students.

Registration of Students

The registration of both the freshers and the continuing students was successfully completed. Apart from the School of Biomedical Sciences whose registrar reported late, the rest of the schools should have registered over 90% of their students within the allocated time.

Preparation for the 2020/2021 Semester One Examinations

The important activities in preparation for the examinations were completed including examination timetabling and invigilators' meetings at departmental, school and college levels to ensure high compliance with all the University Examination regulations. All these preparations and meetings are in place to ensure that the examination process is efficiently organised before and after conduction of the examinations. However, examinations were postponed at the

last minute when all medical students were sent home due to the COVID19 pandemic. This activity was eventually completed when as soon as medical students returned to university.

Examinations Process Conditions:

The College Academic Board continues to oversee all teaching and examination processes through the various subcommittees including the Academic programs and Library committee and the Examination irregularities and malpractices committee. All teaching and learning processes were encouraged to observe COVID-19 standard procedures (SOPs) particularly for all clinical and laboratory practical sessions were students continued to have physical presence to facilitate learning of clinical and laboratory skills.

Curriculum Review

Curriculum review processes continue as required by the departments which submit them for review by the respective school boards and subsequently to the college academic board for review and onward submission to Senate. Some of the programs reviewed in 2021 are listed in the table below;

| No. | Programme | Remarks |
|-----|--|--|
| 1 | Master of Science in Conservative Dentistry | Presented to the Senate Committee |
| 2 | Master in Clinical Pharmacy | Approved by the College Academic Board, College Libraries and programmes Committee and forwarded to Makerere University Senate |
| 3 | Masters in Medicines Regulation | Approved by the College Academic Board, College Libraries and programmes Committee and forwarded Makerere University Senate |
| 4 | Master of Science in Nursing – Paediatrics | Presented to Makerere University Senate |
| 5 | Neonatology Nursing Fellowship | Presented to the College Library and College academic programs committee, pending approval |
| 6 | Master of Nursing in Emergency and Critical Care | Proposed by the Department of Nursing and presented to the School Academic Board |

Laboratory Training and Skilling at the College of Health Sciences: Students receive practical training at the Biomedical Research Center in the School of Biomedical Sciences as a mechanism to advance research, innovations, laboratory services, clinical care, training, and resource mobilization.



Students' training in the Molecular Biology Laboratory at the School of Biomedical Sciences



Students' training in the Molecular Biology Laboratory at the School of Biomedical Sciences

Renovations of Teaching and Learning Facilities

The college of health sciences leadership supported renovations of teach and learning facilities to provide a conducive teaching and learning environment for faculty and students.

Department of Orthopaedics under the School of Medicine

During the reporting period, the college renovated the head of department's office and exterior to prevent adhoc intrusion by unauthorised individuals. In addition theatre gowns and equipment for teaching orthopaedic operations was provide to the department as teaching materials to support training of orthopedic surgeons.



The Head of Orthopedics, Dr. Patrick Sekimpi (right) receiving theatre gowns, blood pressure machines and drills, purchased by MakCHS to boost teaching materials used by the team



Renovations made in the Department of Orthopaedics.

In collaboration with private pharmaceutical companies and Mulago National Referral Hospital, the Department of Orthopaedics received in-kind support for the construction of four new theatres. The inside of Ward 7 added a central oxygen line for post-operative patients. In the department, the staff received some Personal Protective Equipment (PPE).



A central line for oxygen supply to beds in Ward 7 added to support patients after operation.

Dr Sekimpi, please name the funders for acknowledgement by Makerere and clarify if this was in kind support

Boost to E-learning Devices

The College boosted the e-learning equipment in several departments to support blended learning activities. Some of the equipments acquired are as follows:



A flat screen to support E-Learning and presentations



Logitech Machine for E-Conferencing

Renovated Smart Classroom for Department of Anesthesia Graduate Students



Department of Anaesthesia classroom was renovated into a virtual learning multipurpose smart classroom for masters' students

Several projectors and screens have been acquired to support E-Learning at MakCHS



Renovation of lecture rooms: The college renovated several lecture rooms to improve the learning environment for students. These were also fitted with visual-audio equipment to facilitate blended learning approaches.

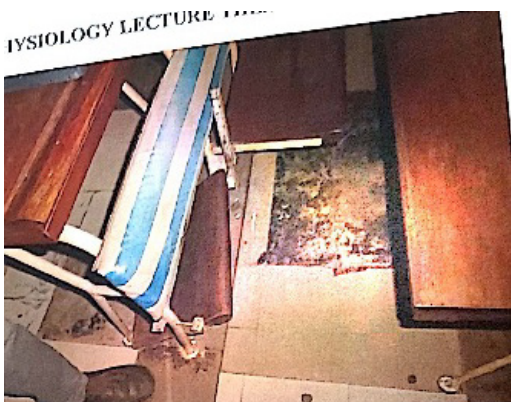


Anatomy Lecture theatre before renovation



Anatomy Lecture theatre was renovated and fitted with visual-audio teaching and learning aids

Anatomy Lecture theatre after renovation



Physiology Lecture theatre before renovation



Dr Robert Kalyesubula, Head of Department of Physiology together with his colleague Dr Haruna receive the newly renovated Physiology Lecture theatre

Physiology Lecture theatre after renovation

RENOVATED FACILITIES



Physiology Lecture Theatre renovated



Histology Lecture Theatre renovated



Anatomy Lecture theatre renovated



Tea/ Coffee Area for PhD Students



Mozaic Archives of advances in Medicine at the College of Health Sciences Albert Cook Library

RESEARCH AND INNOVATION

Launch of the homegrown COVID 19 Rapid Antibody Test Kits

The Department of Immunology and Molecular Biology, College of Health Sciences on Wednesday 17th March 2021 launched their homegrown COVID-19 Rapid Antibody Test Kits. The Kits were developed domestically to help address challenges related to affordability and cost of using imported items.



French Ambassador to Uganda-H.E. Jules-Armand Aniambossou (C) flanked by Hon. Dr. Jane Ruth Aceng (2nd R), Hon. Dr. Elioda Tumwesigye (2nd L) and Prof. Damalie Nakanjako (L) listen as Dr. Misaki Wayengera (R) unveils the Covid19 Rapid Antibody Test Kits on 17th March 2021

Makerere Research and Innovation Fund and Makerere College of Health Science Open Day

The Makerere Research and Innovation Fund (MakRIF) in collaboration with Makerere University College of Health Sciences (MakCHS) held its open day on May 25th 2021. The venue for the half day physical and virtual event was the Davies Lecture Centre and the Dean's Gardens for the exhibition. The objective of the event was to showcase some of the research and innovations in health funded by MakRIF. The event was opened by Prof. Damalie Nakanjako, Principal MakCHS. Presentations: from 10 MakCHS innovators, 10

MakCHS researchers, remarks from MakRIF Chairperson, and Prof. Barnabas Nawangwe, Vice Chancellor, Makerere University. The Masters of Ceremony were: Dr. Sabrina Kitaka, the MakCHS Faculty Incharge and Ms. Harriet Adong, the Communication Officer for MakRIF.

On Tuesday 25th May 2021, 39 projects supported by RIF showcased their research output with a few stakeholders participating physically at the exhibition at the College of Health Sciences, Deans Gardens and presentations at the Davis Lecture Theater and some joined virtually.



Showcasing the Obulamu Ventilator at the Open-day (Low cost Medical ventilator)



Prof. Barnabas Nawangwe (front row), Prof. William Bazeyo (second row left) & other participants at the dissemination of MakRIF research outputs at the Davies Lecture Theatre.



Hon. Dr. Elioda Tumwesigye (R) former Minister of Science Technology and Innovation (MoSTI)- chats with the host and Principal, College of Health Sciences (MakCHS)-Prof. Damalie Nakanjako (L) at the event. In the centre is MoSTI's Dr. Maxwell Onapa Otim

Digital Labour Care Guide for Maternity Care Providers in Uganda

Through a partnership between School of Public Health and Think IT Company, an electronic partograph was developed. The e-partograph was disseminated on 10th February 2021 at Kololo. The researchers Dr. Christine Bukenya and Dr. Richard Mangwi through their study titled "Scale-up of the electronic partograph to improve skilled delivery and emergency referral among refugees and host communities in the West Nile region of Uganda" found the e-partograph effective in close monitoring of labour. This was intended to facilitate complete filling of the partograph and timely action. The researchers urged government to fast-track use of an e-partographs as opposed to the current paper based partograph. The application enables sharing of partographs among health workers making referrals easy especially in remote communities. Thus, the adoption of this smart and lifesaving tool will greatly contribute to the improvement of quality and health outcomes in maternity care in Uganda.



Dr. Christine Bukenya, Principal Investigator of the study and Dr. Richard Mangwi the Co-Principal Investigator together with the study team at the dissemination event in Kololo.

Response to the COVID-19 pandemic

Research laboratories in the School of Biomedical Sciences made significant contributions to the national response to COVID19 pandemic through expanding COVID-19 testing and related research to inform the national task force which was chaired by Dr Misaki Wayengera of Makerere University College of Health Sciences. Collectively all faculty at the college contributes to the COVID-19

response through case management of ill patients, research and innovation to inform prevention and treatment strategies, laboratory testing and training, as well as community engagement to influence policy, practice and uptake of all prevention and treatment interventions including COVID-19 vaccination. Makerere University hospital actively participated as a COVID-19 testing site (with laboratory testing at the laboratories in School of Biomedical Sciences) and COVID-19 Vaccination with all vaccines available from the Ministry of Health.

Several faculty members at MakCHS competed (both locally and internationally) and won research funds to contribute to the COVID-19 response through funding from the Government of Uganda, National Institute of Health (NIH), USA EDCTP, and several other funders globally. Special appreciation goes to all the national bodies that support research processes at MakCHS including the Ministry of Health, Uganda Virus Research Institute, Uganda National Council for Science and Technology and the entire government of Uganda and all the citizens who endured the difficult conditions of the un-precedented lockdowns to curb the rapid spread of the disease and prevent majority of the projected deaths in the country.

KEY SCIENTIFIC CONFERENCES

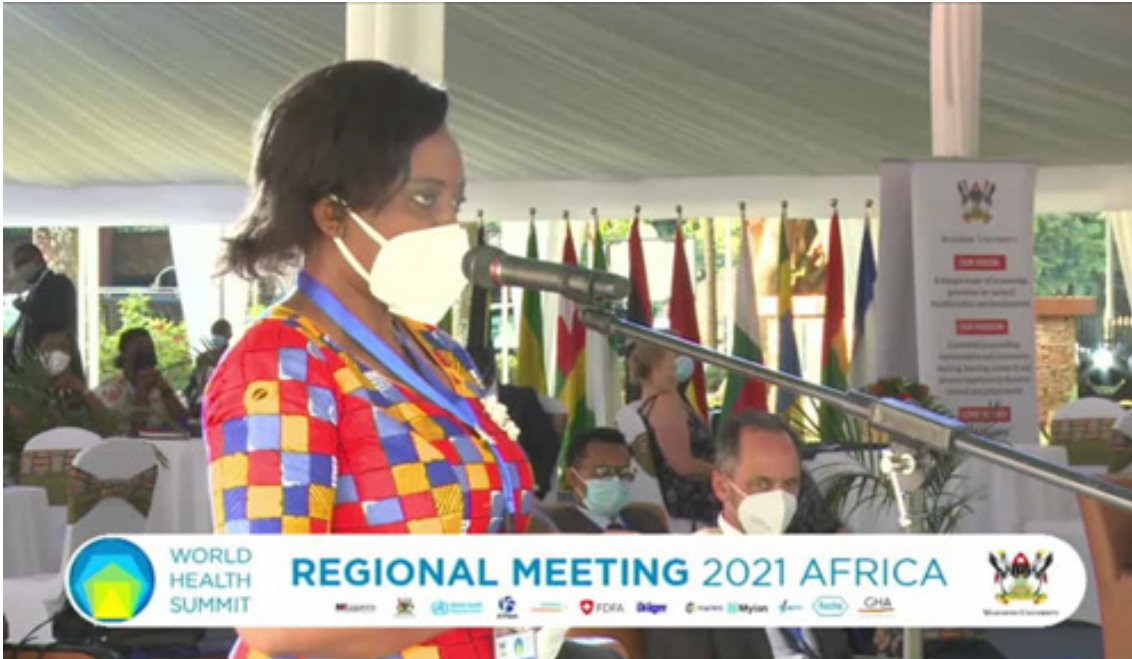
World Health Summit Regional Meeting

Makerere University, College of Health Sciences (MakCHS), Uganda was the first ever institution in Africa to host the World Health Summit (WHS) Regional Meeting. The WHS Regional Meeting was held at Speke Resort Munyonyo from 27th to 30th June 2021. It was organized by MakCHS in collaboration with all National Academies of Medicine and Science and Inter-Academy Partnership (IAP) for Health.

The World Health Summit Regional Meeting is an annual conference of the M8 Alliance of Academic Health Centre's, Universities and National Academies of Medicine and Science. It is an increasing network of 30 members in 20 countries and includes the InterAcademy Partnership (IAP) representing the national academies of medicine and science in 130 countries.



World Health Summit Regional Meeting in Kampala, Uganda



The Principal – College of Health Sciences, Professor Damalie Nakanjako welcoming delegates to the World Health Summit Regional Meeting



World Health Regional Summit Kampala, Uganda

The World Health Summit Regional Meeting aims to improve global health, catalyzing that process through collaboration and open dialogue, and steering tomorrow's agenda to improve research, education, healthcare, and policy outcomes. It brought together academia, researchers, physicians, government officials, industry, civil society as well as NGOs and healthcare systems from all over the world to address the most pressing issues facing every facet of global health and medicine in the world. The topics discussed included:

- COVID-19 Pandemic in Africa
- Stemming the tide of Non-Communicable Diseases (NCDs) in Low income and Middle-income countries
- Universal Health Coverage
- Global Health Security and Infectious Diseases
- Advancing Technology for Health in Africa
- Intersectoral Action for Health

The meeting stimulated all stakeholders to think better and work harder to achieve the Sustainable Development Goals, all of which pertain to health directly and indirectly according to Prof. Charles Ibingira, the International President of the World Health Summit 2021 and former Principal of the College of Health Sciences, Makerere University.

An important dialogue between H.E. Yoweri Kaguta Museveni, and Dr. Tedros Adhanom Ghebreyesus, Director-General, World Health Organisation (WHO) about equitable access to vaccines for medium and low-income countries including Uganda took place at the meeting.

The Vice Chancellor of Makerere University, Prof. Barnabas Nawangwe signed a Memorandum of Understanding (MoU) with Prof. Axel R. Pries, Dean of Charité Universitätsmedizin, Berlin, Germany. The MoU aims to promote academic collaboration in research and study between the two institutions.



Prof. Axel R. Pries of Charité Universitätsmedizin, Berlin, Germany signing the MoU with Makerere University at the World Health Summit Regional Meeting

Makerere University College of Health Science Joint Annual Health Professions Education Scientific Conference

The Health Professions Education Partnership Initiative (HEPI) hosted under Makerere University College of Health Science in union with the Eastern Africa Health Professionals Educators Association (EAHPEA) organized a physical and virtual conference from 27th to 28th May 2021 at Hotel Africana. The theme for the conference was “Transforming Health Professions Education in the 21st Century: From Theory to Practice”.

The opening ceremony was chaired by Assoc. Prof. Robert Opoka and Dr. Scovia Mbalinda. It had remarks from the Chairperson Organising Committee and HEPI PI, Prof. Sarah Kiguli, opening remarks from EAHPEA, Dr. Tegbar Yigzaw, remarks from Principal MakCHS, Prof. Damalie Nakanjako, remarks from the Guest of Honor, Assoc. Prof. Umar Kakumba, Deputy Vice-Chancellor Academic Affairs, Makerere University and a key note address on “Transformative Health Professions Education by Prof. Nelson Sewankambo, MakCHS. The conference had other sessions. Session 1 was chaired by the Dean School of Medicine, Assoc. Prof. Annetee Nakimuli. The session had a keynote address on: (i). “Health Professions’ Education in the COVID-19 Era: Challenges and Opportunities by Prof. Patrick Kyamanywa, Deputy Vice-Chancellor, Kampala International University; (ii). “The role of Nursing Education in Strengthening the Health System by Dr. Rose Clarke Nanyonga of Clarke International University. The Round Table Discussion Theme was Inter Professional Education. The Panelists were: Dr. Roy Mubuuke-Makerere University, Dr. Scovia Mbalinda –Makerere University, Dr. Rebecca Nekaka-Busitema University and Moderator-Prof. Elsie Kiguli Malwadde.

Session 2 was chaired by Dr. Lydia Namuyimbwa from Kabale University. Key note address on: (i). “Transforming Biomedical Science Education by Prof. Sam Luboga. Oral presentations under themes: Innovations in Teaching and Learning Moderated by Dr. Milly Kabanga. (i). Developing

and inter-professional curriculum to improve team-based HIV care in sub-Saharan Africa: focusing on learners in transition by Prof. Elsie Kiguli Malwadde. (ii). GEMx-EAHPEA Student Exchange program: An African Regional Multilateral Approach to Elective Learning by Ms. Faith Nawagi. (iii). Innovative ways of teaching academic writing to graduate students by Baltazar Nyongozi. (iv). Improving rapid malaria testing with Low Dose High Frequency training in Uganda by Paul Oboth. (v). Impact of mentorship programs on medical students at King Ceasor University by Maureen Niwensuti.

Session 3 had a Round Table Discussion under the theme: “The role of Regional/International Networks in transforming HPE” chaired by Dr. Rose Nanyonga Clarke. The panelists were: AFREhealth- Prof. Elsie Kiguli Malwadde, EAHPEA-Dr. Tegbar Yigzaw, Foundation for Advancement of International Medical Education and Research (FAIMER) -Dr. Faith Nawagi and MUYU Collaboration-Dr. Tracy Rabin.

Key Conferences

Uganda Heart Association 6th Annual Scientific Congress: The Uganda Heart Association (UHA) on Friday 9th April 2021 hosted a virtual 6th Annual Scientific Congress in Africa. The congress was under the theme “Digital health as a tool for enhancing health delivery”. This congress was for their membership composed of cardiologists, cardio-vascular surgeons, specialist physicians, technologists, nurses and other health professionals. The Uganda Heart Association (UHA), a non-government organization that promotes cardiovascular healthcare. The aim of the association is to address the heavy burden of countries in Africa suffering with cardiovascular disease promoted by cardiovascular risk factors such as smoking, hypertension, dyslipidemia, diabetes and sedentary life styles.

Conferences attended/organized by faculty

- i. The 9th Annual ARESA Research Ethics Seminar Ethical challenges raised by COVID-19 in Southern Africa; attended by Associate Professor Joseph Ochieng.
- ii. The 11th Annual National Research Ethics Conference hosted by Uganda National Council of Science and Technology (UNCST).
- iii. The 16th Annual International Conference on Clinical Ethics & Consultation 30th November to 3rd December 2021.
- iv. The 17th H3Africa virtual Consortium meeting April 19-23, 2021 and 18th H3Africa virtual Consortium meeting 20 August 2021- 2 September 2021.
- v. The 17th H3Africa virtual Consortium meeting April 19-23, 2021 and 18th H3Africa virtual Consortium meeting 20 August 2021- 2 September 2021, attended by Associate Professor Erisa Mwaka.
- vi. **Achan B *et al***; Tenth EDCTP Forum - 17th to 21st October, Maputo, Mozambique - Oral presentation – Virtual participation.
- vii. **Achan B.** 12th European Congress on Tropical Medicine and International Health - Attendance. September 28th to October 1st, 2021.
- viii. **Lubwama M.** Multidrug Resistant Polymicrobial Gram-negative Bacteremia in Hematologic Cancer Patients with Febrile Neutropenia at the Uganda Cancer Institute. Infectious Diseases Society of America (IDWeek). Poster presentation - Virtual Conference. 2021.



COVID-19 Vaccination of Staff and Students at Makerere University College of Health Sciences



COVID-19 Vaccination of Staff and Students at Makerere University College of Health Sciences



SCHOOL OF BIOMEDICAL SCIENCES

INNOVATIONS, AWARDS AND RECOGNITIONS

Winners of Innovation Health Awards from the College of Health Sciences in 2021: During the 3rd National Stakeholder workshop held on 17th March 2021, at Golf Course Hotel, Kampala. Four innovators from the College of Health Sciences

were among those recognized for the best community-based health solutions in Uganda (see table). The awards were received from the Social Innovation in Health Initiative (SIHI) project hosted under the School of Public Health.

| No. | Name | School | Project | Award |
|-----|----------------------------------|---------------|--|------------------------|
| 1 | Dr. Etheldreda Nakimuli and team | Medicine | Seek-GSP project that aims at narrowing the treatment gap for depression among people living with HIV using group support psychotherapy delivered by community health workers. | 2020 Social Innovation |
| 2 | Mr. Filimin Niyongabo | Public Health | Student's HIV/AIDs Awareness campaign (SHIVA) | 2020 Social Innovation |
| 3 | Mr. Mathias Amperize | Public Health | Youth-led cancer and diabetes awareness campaign (YCADAC) | 2020 Social Innovation |
| 4 | Mr. Lubega Martin | Public Health | Author of 48-page book under My Pregnancy handbook project | 2020 Social Innovation |



Mr. Filimin Niyongabo, a MakSPH-BEHS alumnus receives a certificate of recognition for his innovation Students HIV/AIDs Awareness (SHIVA) Campaign from Prof. Damalie Nakanjako, Principal MakCHS.

US\$1M grant for Maternal Health Research for Maternal Health Research from the Gates Foundation - Calestous Juma Science Leadership Fellowship: Associate Professor Annette Nakimuli and Dean of the School of Medicine was awarded a US\$1M grant for Maternal Health Research for Maternal Health Research from the Gates Foundation - Calestous Juma Science Leadership Fellowship. The 5-year grant will support a study titled 'Enhancing prediction of adverse pregnancy outcomes in Africa through partnerships and innovation' to identify predictors of adverse pregnancy outcomes for women in Uganda. The study will specifically focus on Great Obstetrical Syndromes, such as pre-eclampsia, preterm birth, stillbirth, intrauterine growth restriction; to help develop context-relevant interventions for prevention and treatment. This is a major research project because Great Obstetrical Syndromes is a major killer in sub-Saharan Africa accounting for 60% of the deaths of mothers. Maternal mortality in Uganda remains high in the region at 336/100,000 live births which is approximately a 14-seater bus of women dying per day. A cohort study of 4000 healthy pregnant women at Mulago and Kawempe Hospitals in Kampala, Uganda will be conducted where detailed clinical, biological and demographic information from mothers throughout pregnancy and from their babies at the time of birth will be collected. The study has potential to shed light on determinants, mechanisms and solutions for the

excess burden of maternal and perinatal morbidity and mortality in SSA and for women with African ancestry elsewhere in the world.

Training Health Researchers into Vocational Excellence (THRiVE) fellows won awards and recognitions. **Dr Gerald Mboowa**, a THRiVE PhD fellow and Implementation Science Expert for Bioinformatics at the Africa Centers for Disease Control and Prevention (Africa CDC) was awarded a €10,000 (UGX 44.5M) Anglophone prize for the Young Investigators Award. He was awarded by the African Association for Research & Control of Anti-Microbial Resistance (AAAMR) in recognition of his innovation, the Rapid Microbial Analysis Pipeline (rMAP). rMAP is an automated bioinformatics tool for analyzing, interpreting and tracking antimicrobial resistance (AMR). It is able to exhaustively decode bacterial resistance with minimal hands involvement.

Assoc. Prof David Meya, a THRiVE postdoctoral fellow was selected as a fellow for the prestigious Africa Science Leadership Program (ASLP). The programme grows mid-career African academics in the areas of thought leadership, team management and research development and enables them to contribute to the development of a new paradigm for science in Africa, focused on its contribution to solving the complex issues facing both Africa and the global community.



- Dr. Mubuuke Gonzaga received the inaugural Prof. James Hakim Award from National Institutes of Health/Fogarty International Centre, Consortium of Universities for Global Health and AFREhealth for his excellency in radiology practice, research, training and building partnerships. He will formally receive the award in 2022 in Washington DC.
- Dr. Mubuuke Aloysius Gonzaga, a Lecturer in the Department of Radiology successfully completed his Post-Doc Fellowship supported by NURTURE, NIH/Fogarty International Centre with a research project focused on Breast Imaging. We congratulate him for this achievement in the department.
- Dr. Nassanga Rita received a scholarship to pursue a virtual Fellowship in Neuro Radiology with mentors from USA.
- Dr. Erem Geoffrey has significantly progressed in his PhD work at Makerere University and has completed data collection. He has published one paper and busy writing other manuscripts.
- Dr. Kisembo Harriet Nalongo, a Senior Consultant in the Department of Radiology and honorary lecturer has also significantly progressed in her PhD studies at Makerere University. She is completing data collection.
- Severe members of staff have attended workshops and seminar organized by Mulago Hospital, College of Health Sciences and Professional Associations in various topics.

School of Public Health ranked high in Organisational Capacity by Jhpiego

Makerere University College of Health Sciences, School of Public Health in February 2021 ranked high during the Jhpiego 2nd Organisational Capacity Assessment (OCA). Jhpiego is an International non-profit health organization affiliated to the John Hopkins University in the USA. Jhpiego aims at saving lives, improving health and transforming futures. Using the Jhpiego OCA tool kit, the School of Public Health

scored 80 percent in the areas of organizational registration, Board, leadership and succession plan and fundraising and resource mobilization. The OCA tool kit is subjected to organisations implementing international global projects.



School of Public Health staff, Unit Heads and a team of Jhpiego sharing a triumphant moment after their excellent ranking in the 2nd Organisational Capacity Assessment. Photo by Davidson Ndyabahika

PhD Training Activities

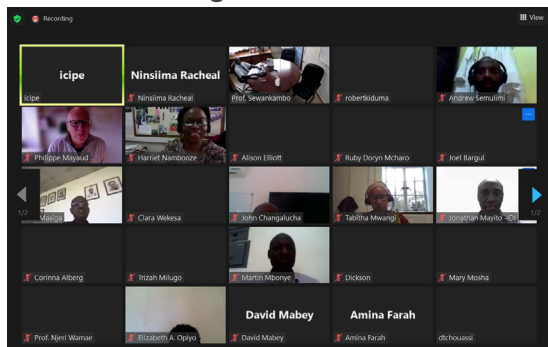
Online Data Training Course

In its mandate of providing continuous professional development to its PhD fellows, THRiVE conducted an eight-week online Data Analysis course between July 19 and August 28 2021. The course adopted a didactic training mechanism, offering practical sessions, lasting three hours- Monday, 2pm-5pm four hours on Saturday 9am-1pm, per week for eight weeks. Furthermore, the course focused on grounding skills in data management, analysis commands and result interpretation for the PhD fellows. The training was held against the backdrop of equipping fellows with skills to effectively analyze the data they have collected for their PhD studies. The training was spearheaded by Associate Prof. Kiwanuka Noah, Head of Epidemiology and Biostatistics Department at the School of Public Health Makerere University.

Additionally, THRiVE in collaboration with International Centre of Insect Physiology and Ecology (ICIPE) held a Geographic Information System (GIS) and Data Science for Disease Modelling Training on between August 2 and 13 2021 at Duduville Campus, icipe- Kasarani.

The training provided basic and intermediate understanding of data and geospatial tools for disease prediction and monitoring.

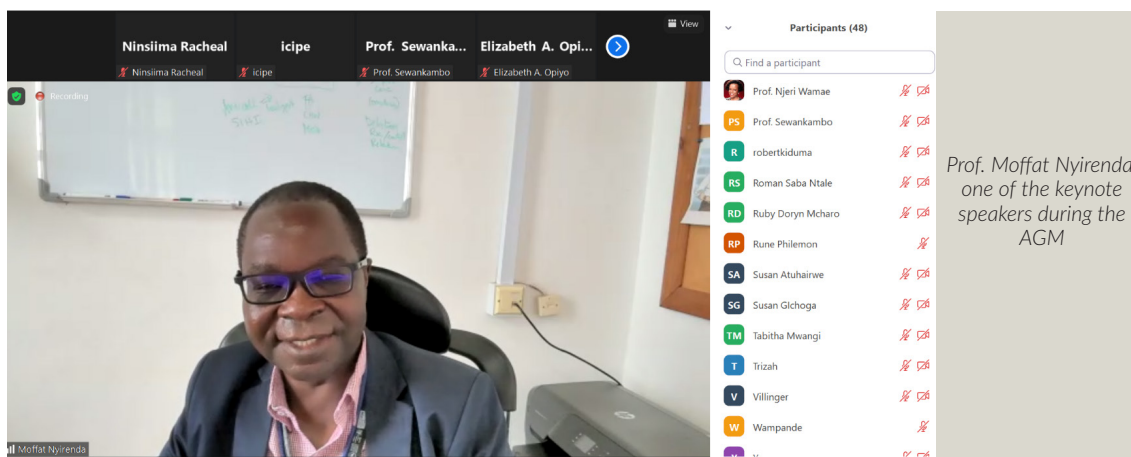
THRiVE held its first online Annual General Meeting



In the midst of the ongoing COVID-19 pandemic, THRiVE held its first online annual general meeting (AGM) between November 29 and December 1 2021. The AGM had been scheduled to happen physically in June 2020 in Mombasa. However, with the persistence of the pandemic, it was shifted online. The meeting was well attended with over 50 participants from different academic institutions on each of the three days. Participating institutions were: Makerere University; International Centre of Insect Physiology and Ecology (icipe)-Nairobi; Cambridge University; London School of Hygiene and Tropical Medicine (LSHTM); Gulu University; Kilimanjaro Christian Medical University College; Uganda Virus Research Institute (UVRI) and the National Institute for Medical Research (NIMR) in Tanzania.

During the three days, 13 PhD fellows presented progress of their research work, community and public engagement projects and publications in peer reviewed journals. The meeting was also graced with three top-level scientists as keynote speakers. These were: Prof Nicky Mulder, Head of the Computational Biology Division at University of Cape Town who discussed the progress of data science and genomics in Africa; Dr. Jeremy Herren, a molecular biologist based at ICIPE who talked about a microbe that blocks malaria transmission and Prof. Moffat Nyirenda, a diabetologist and Professor of Medicine at LSHTM who spoke on differential manifestation of non-communicable diseases in Africa and implications for diagnosis and management.

At the end of the meeting, Prof Nelson Sewankambo, Director-THRiVE, thanked the PhD fellows for progressing in their research despite the COVID challenge. He urged them to endeavor to complete and defend their theses by June 2022. He applauded Assoc. Prof Angelina Kakooza, a postdoctoral fellow who was recently awarded a \$2.5M grant by the National Institutes of Health to clinically characterize a Ugandan national sample of patients with epilepsy, investigate the magnitude and drivers of epilepsy stigma among adolescents and evaluate the effects of a community-based engagement program on reducing this stigma in the community (AWE Change project).



Prof. Moffat Nyirenda, one of the keynote speakers during the AGM

PhD Defenses

Two THRiVE-2 PhD fellows successfully defended their PhDs and now await graduation. These are: Dr. Dinah Amongin, a lecturer in the Department of Health Policy Planning and Management at Makerere University's School of Public Health and Trizah Koyi, a Tutorial Fellow at Technical University of Kenya (TU-K) and visiting scholar at the International Centre of Insect Physiology and Ecology (icipe), Kenya.

Dr. Amongin defended her thesis on August 23 2021 and her research explored factors associated with first and repeat adolescent births in Uganda; socio-economic and reproductive outcomes among women in Uganda toward the end of their reproductive life-course (40-49 years) and motivators and circumstances for repeat adolescent birth in Eastern Uganda. On the other hand, Koyi defended her thesis on November 16 2021 and her research focused on evaluating malaria transmission-blocking potential of plant derived metabolites.



Dr. Dina Amongin during her PhD defense



IRAMIOT JACOB STANLEY:

Mr. Jacob Stanley Iramiot studied the molecular epidemiology of antimicrobial resistance at a human-animal interface in pastoralist community of Kasese district. He found that the prevalence of multi-drug resistance among bacteria isolated from both humans and animals was high. He also found that consumption of lakeshore water and carriage of multi-drug resistant bacteria in cattle were associated with carriage of multi-drug resistant bacteria in the human population which suggests a possibility of transmission of multi-drug resistant bacteria between humans and animals. This knowledge will aid in developing a more robust national antibiotic stewardship program which is enshrined in a one-health approach. The study was supported by the DELTAS Africa Initiative [grant# 107743/Z/15/Z]. The DELTAS Africa Initiative is an independent funding scheme of the African Academy of Sciences (AAS)'s Alliance for Accelerating Excellence in Science in Africa (AESA) and supported by the New Partnership for Africa's Development Planning and Coordinating Agency (NEPAD Agency) with funding from the Wellcome Trust [grant #107743/Z/15/Z] and the UK government and supervised by Prof. Benon B. Asiimwe, Dr. Henry Kajumbula and Prof. Joel Bazira.



TUKWASIBWE STEPHEN:

Dr Tukwasibwe investigated whether genetic variations in two highly variable immune system genes in the human genome, that is killer-cell immunoglobulin-like receptor (KIR) and their human leukocyte antigen-C (HLA-C) ligands differ within Ugandan populations with historically varied malaria transmission intensities, and the association of KIR and their HLA-C ligands with malaria severity in Uganda. These studies involved use of new comprehensive high-throughput genotyping approaches. From this study, Stephen designed a high-throughput HLA-C genotyping method, which will be useful in disease association studies involving large cohorts. He has also demonstrated that, KIR-AA and HLA-C2C2 genotypes are protective from severe malaria. This is likely to explain the increased burden of pre-eclampsia in our population, which is increased in mothers with KIR-AA haplotypes carrying an HLA-C2C2 foetus. The study was funded by the Makerere University-Uganda Virus Research Institute Centre of Excellence for Infection and Immunity Research and Training (MUII) through the DELTAS Africa Initiative (Grant no. 107743), and was supervised by Assoc. Prof. Annetee Nakimuli, Dr Stephen Cose, Dr Francesco Colucci, and Prof. Philip Rosenthal.



LWANIRA CATHERINE NASSOZI:

Host Genetic Variations and their association with malaria among Ugandan children

Ms. Catherine Nassozi Lwanira studied the influence of human genetic variations on incidence of uncomplicated malaria among children living in malaria vaccine trial villages in Iganga district, Uganda. She found a high prevalence of sickle cell trait and glucose-6-phosphate dehydrogenase (G6PD) A- variant among the children. She also found that the heterozygous nitric oxide synthase 2 variant (NOS2 -954 G>C) was associated with lower incidence of acute malaria infections in children 0.5-9 years. This knowledge will create health worker awareness of the high prevalence's of sickle cell trait and G6PD deficiency in regional malaria endemic areas. This is needed to guide targeted care of patients with acute hemolytic anaemia and to increase community awareness of the high existence of sickle cell genotypes. This knowledge may also be useful in guiding the planning and design of malaria clinical (drugs and vaccines) trials. The study was supported by the European Community's Seventh Framework Programme (FP7/2007-2013) under grant agreement N° 242095 (EVIMALAR), Sida/SAREC-Makerere University cooperation grants and the European and Developing Countries Clinical Trials Partnership (EDCTP) under grant no. IP.2007.3110.001. The study was supervised by Prof. Fred Kironde and Prof. Göte Swedberg.



BAIGANA RHONA:

Ms. Rhona Baingana investigated the impact of *Helicobacter pylori* infection on the efficacy of the National Anemia Policy (2002) intervention package for anemia in pregnancy. The prevalence of *H. pylori* infection among pregnant women attending antenatal care clinics in 5 districts in Uganda was unexpectedly found to vary significantly from 18% in Apac to 60% at Kawempe Health Centre and was independently associated with urban residence and with using unprotected water sources, calling for concerted efforts in environmental health. *H. pylori* infection was not associated with anemia and did not influence the response to the maternal anemia control package in pregnant women attending ANC at KHC. Hemoglobin levels reduced significantly during pregnancy among those women with malaria parasites, and among those with inadequate iron stores. Over half of the mothers with anemia did not have iron deficiency, and infections/inflammation were of greater significance than iron deficiency in the aetiology of anaemia during the first trimester indicating that infection/inflammation should be considered alongside iron deficiency and malaria in current strategies to address anaemia in pregnancy. The study was funded by Innovations@Makerere and Nutricia Research Foundation, and was supervised by Dr. Lena Davidsson and Professor John Enyaru.



BAYIGA LOIS: (yet to graduate in 2022)

Ms. Bayiga Lois investigated the Role of Vaginal Microbiome in Host Susceptibility to HIV Infection in Pregnant Ugandan Women: Inflammatory Response and Epithelial Barrier Integrity. Ms. Bayigga Lois used next-generation sequencing and in -vitro cell/tissue models to identify the composition of bacterial species present in the vaginal tract of pregnant women and determine their role in HIV susceptibility. The vaginal microbiome of pregnant women in sub-Saharan Africa is reportedly more diverse than that of western women. Her research revealed that 80% of pregnant women attending antenatal clinic at Kawempe National Referral Hospital (formerly Mulago National Referral Hospital, Directorate of Obstetrics and Gynecology) had a non-Lactobacillus dominant vaginal microbiome. The non-Lactobacillus-dominant vaginal microbiota was associated with elevated levels of pro-inflammatory cytokines and alterations of the tight junctions of vaginal epithelium. In-vitro, these findings were reproduced when bacterial cell-free supernatants, that were representative of the observed vaginal microbiome, were applied onto vaginal epithelial cells or tissue models. Pregnant women with a non-Lactobacillus dominant microbiota may be at greater risk of HIV due to the associated inflammation and weakened vaginal epithelial barrier. This data present promising opportunities to design and study HIV prevention interventions that may modify the non-Lactobacillus dominant vaginal

microbiota to a more protective Lactobacillus-dominant microbiota in order to reduce the high rate of HIV-infections observed in young women of sub-Saharan Africa.

This study was funded by a Wellcome Trust Uganda PhD Fellowship in Infection and Immunity funded through the Makerere/Uganda Virus Research Institute Infection and Immunity Research Training Program (MUII-PLUS) under the DELTAS Africa Initiative (Grant Number 107743/Z/15/Z). Additional funding was provided by the Training of Ugandans in Basic Research on Tuberculosis and Emerging Infectious Diseases program funded by Fogarty International/National Institutes of Health (D43TW009093-03) and supervised by Professor Damalie Nakanjako (Makerere University), Dr. David Kateete (Makerere University), Dr. Musa Sekikubo (Makerere University), and Prof. Deborah Anderson (Boston University).

COVPRES Dissemination Workshop

Makerere College of Health Sciences using funding from Makerere University Research Innovation Fund (MakRIF) conducted a COVID-19 Pandemic Rapid Evidence Synthesis Review (COVPRES). The Principal Investigator Dr. Moses Ocan and Co-Principal Investigator Dr. Daniel Semakula shared their findings of a study titled “**COVID-19: Evidence for Low and Middle-Income Countries**” through a virtual dissemination workshop held on 30th March 2021. This study provided critical information used by the Ministry of Health on COVID-19. Some of the findings noted that rather than invest a lot in mass testing they should prioritize vaccinations. Furthermore, that the health workers, elderly and those with diabetes, respiratory diseases, cardiovascular diseases and other chronic respiratory illness should be given first priority to test for COVID-19. Also, that testing should be continued to establish the nature of infection and even post vaccination. In addition, health workers should educate the public and make them understand how COVID 19 Vaccines work.



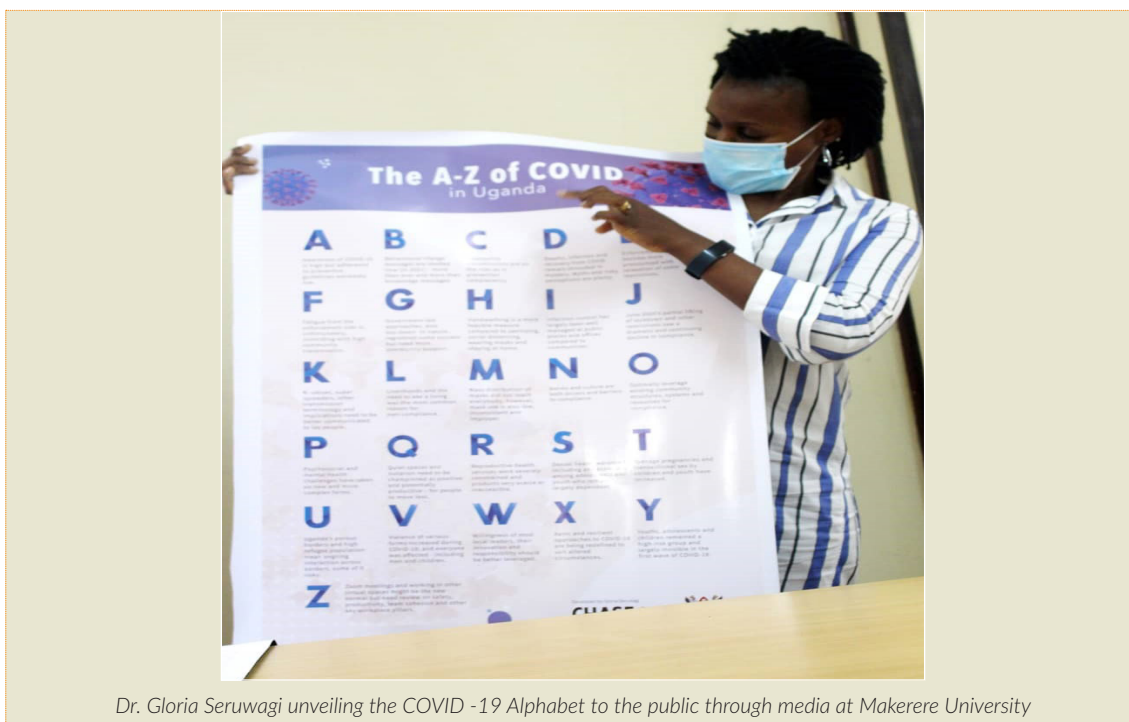
Dr. Moses Ocan and Dr. Daniel Semakula presenting their study findings in a virtual dissemination workshop

Surveillance COVID-19 Mobile Application dissemination workshop

Makerere College of Health Sciences using funding from Makerere University Research Innovation Fund (MakRIF) conducted a study titled “Mobile application for COVID-19 Epidemiological Surveillance, Case and Contact Tracking”. The findings were disseminated virtually on 30th March 2021 by the Principal Investigator Dr. Harriet Babikako, Dr. Ezekiel Mupere, Dr. Vincent M. Kiberu, and Mr. Haron Gichuhi. According to Dr. Babikako the mobile applications can overcome challenges faced by community surveillance teams to track COVID-19 cases and contacts. The mobile application has inbuilt epidemiological surveillance, case and contact tracing system for COVID-19. This platform empowers health workers in schools to appropriately screen students, identify and refer probable COVID-19 cases to appropriate public health interventions. The application is cost effective to health providers like government as the screening platform is in the hands of communities. Furthermore, it captures community feedback. Also, it provides option for booking appointment and so reduces waiting time for patients in queues.

COVID-19 Alphabet as part of the fight against COVID 19

Makerere University College of Health Science through its academic staff under the School of Public Health joined government in its fight against COVID-19 by developing a COVID-19 Alphabet. On 17th February 2021, Dr. Gloria Seruwagi unveiled her innovation to the public through the media briefing held at Makerere University. The COVID-19 Alphabet (A-Z of COVID 19 in Uganda) is an awareness and behavioural change management model to support governments fight against COVID 19. The inspiration for development of the Alphabet arose from conduct of COVID-19 studies in different communities including the REFLECT study in humanitarian contexts and ALERTs study in different informal settlements within Kampala. Her call was for leaders, teachers, parents, civil society organizations, policymakers and all health stakeholders to pick an action point from each Alphabet letter to implement if COVID-19 is to be countered.



Dr. Gloria Seruwagi unveiling the COVID -19 Alphabet to the public through media at Makerere University

The Alphabet is a Know, Think and Act (KTA) tool packed with bits of information that can easily be grasped by anyone. Apart from being easy on the eye, it simple, factual and anchored in research. Furthermore, it works for all whether from policy making, programme management, virtual workplace, community leadership, or home in need of quick facts.

Develop, test, scale up interventions to reduce HIV risk among war affected populations in Northern Uganda

Child Health Development Centre under Makerere University College of Health Science is undertaking a study whose purpose is to develop, test and scale up culturally safe, strength based, trauma informed, technology enhanced (CSTT) interventions among war affected populations in the districts of Gulu, Amuru, Nwoya and Omoro in Northern Uganda. The ongoing study is a sero-survey following a cohort of 3332 participants aged 13-49 years. It is funded by the Canadian Institute of Health Research (CIHR) from 2017 to 2023 and the Principal Investigator is Dr. Herbert Muyinda. Other objectives of the study include: (i) characterizing the effects of war associated trauma on HIV and STI-related vulnerability, including the impact of trauma on seeking treatment; (ii) identifying individual, socio-cultural and structural factors associated with barriers to access and utilization of HIV care services as conflict-affected populations resettle from Internally Displaced People's camps to villages; (iii) estimating the prevalence and incidence of HIV/syphilis/Hepatitis B, and identifying the risk factors among conflict-affected populations in Northern Uganda.



Developing and Testing Interventions to Reduce HIV risk, increase access to treatment and promote resilience in war affected populations in Northern Uganda

Targeted Interventions to address HIV Vulnerabilities and Improve Clinical Outcomes among Conflict-Affected Adolescent Girls and Young Women under 25 years in Northern Uganda

Child Health Development Centre under Makerere University College of Health Science is also undertaking another study funded by Canadian Institute of Health Research (CIHR) and is from 2019 to 2022. The principal investigator for the project is Dr. Herbert Muyinda. The study is an ongoing survey following a cohort of 932 adolescent girls and Young Women 13-24 years.

The objective of the pilot is to test feasibility and acceptability of comprehensive Health package to support engagement in HIV care among conflict-affected young women living with HIV in Northern Uganda.

Ugandan Parenting for Respectability (PfR) Implementation Science Evaluation (UPRISE)

Child Health Development Centre under Makerere University College of Health Science developed and tested a parenting programme titled Parenting for Respectability (PfR). The PfR is a 16-session programme and is funded by Oak Foundation and Evaluation Fund. The implementing partners are Makerere University, University of Glasgow-Ekman SOS Children's Village. The principal investigator for the study is Dr. Godfrey Siu. The project is undergoing a cluster randomised control trial-impact evaluation for the period, 2020-2022. The programme addresses four main challenges of parenting and builds parenting skills in four main areas; (i) bonding and attachment, (ii) alternative discipline (iii) gender socialisation, and (iv) spousal relationships and conflicts. Preliminary findings show that the programme helps parents to acquire skills they need to prevent child abuse and reduce partner violence. The project has undergone a before-and-after evaluation with 640 parents and their children between 10 to 14 years (300 children) with promising results to achieve its objectives.

Parenting Agenda for Uganda

Child Health Development Centre (CHDC) under Makerere University College of Health Science is undertaking a Parenting Agenda for Uganda (PAfU). The PAfU is a collaborative initiative between the CHDC and the Ministry of Gender, Labour and Social Development. This project is from 2019 to 2021 and is funded by Oak Foundation. The PAfU goal is to develop an agreed agenda for parenting work in Uganda by providing strategic direction and leadership, as well as a platform for generating stakeholder consensus to optimise implementation of evidence-based

parenting interventions for early prevention of violence across Uganda. Progress made based on the different strategic actions include: (i) Improving coordination of effort and shared learning in this field, (ii) Support the Ministry of Gender, Labour and Social Development, Culture and Family Department to disseminate the National Parenting Guidelines; (iii) Generating consensus on what parenting work should look like in Uganda, and (iv) Improving the evidence base for parenting interventions to prevent violence.

Renal abnormalities and mineral bone disease among sickle cell anaemia children admitted with painful vaso-occlusive crisis at Mulago hospital

This is an on-going project has received multiple funding through National Institute of Health (NIH) since 2018. The principal investigator is Dr. Anthony Batte. The objectives of the project are (i) evaluating a cohort of children with sickle cell anemia (SCA) for incidence of acute kidney injury (AKI), chronic kidney disease (CKD), stroke risk and mineral bone disease; (ii) evaluating the role of different biomarkers of kidney disease to understand pathophysiological mechanisms of kidney disease in SCA as well as improving early identification and diagnosis of kidney disease. From the study, 67 (36.2%) children had AKI with 43 (23.2%) cases on admission, and 24 (16.9%) cases of incident AKI. Also, the performance of urine neutrophil gelatinase-associated lipocalin (uNGAL) was measured using a semi-quantitative point-of-care lateral flow uNGAL test on fresh urine (uNGAL_{POC}) and quantitatively assessed by ELISA (uNGAL_{ELISA}). Results demonstrate that AKI is common in children with SCA and a point-of-care semi-quantitative uNGAL test had comparable ability to identify AKI compared to quantitative ELISA.

MAKERERE



UNIVERSITY

COLLEGE OF HEALTH SCIENCES

PHYSIOLOGY LECTURE THEATRE

COMMUNITY OUTREACH AND PUBLIC ENGAGEMENT

Research Enrichment through Community and Public Engagement

In light of the COVID-19 pandemic, research activities for many PhD researchers have been hindered. However, some of these researchers have been able to use the available time to engage student and resident communities with their scientific research in a bid to further enrich it. Over 10 THRiVE-2 fellows have developed and executed community and public engagement projects with immense positive outcomes. For example, through dialogue engagements for residents of Kisubi along Entebbe Road, Dr Angelina Kakooza, a postdoctoral fellow, has been able to understand the meaning of Zika,

after which a virus and forest are named. A documentary showcasing her work has been produced. Additionally, Dr Jonathan Mayito and Richard Kwizera, PhD fellows, have developed a self-user comic book to provide students with basic information about tuberculosis and asthma. Copies of these books will be distributed to various schools once they are fully reopened. Another, Dr Denna Michael, working with students of Mwanza Secondary School in Tanzania, has developed a prototype video to provoke discussions around access to family planning.



Dr Angelina Kakooza engages community members of Kisubi on the origins of the Zika virus



Contribution by the College in fighting COVID-19 through Vaccination

The College of Health Science participated in the global and national fight for COVID-19. This was through vaccination and sensitization of the University community. Makerere University Hospital rolled out mass vaccinations to its staff and the public on 26th March 2021. The hospital intended to vaccinate all its 3,150 staff. The Vice-

Chancellor of Makerere University, the College principal and Director of Makerere University hospital spearheaded the vaccination drive for the University community. The Vice-Chancellor after receiving his first jab urged all staff to get vaccinated. The mass vaccination started with staff from the College of Health Sciences.



Makerere University Hospital



MakerereUniversityHospital ifrastructure upgrades Expansion-Site-Handover



The Vice Chancellor Professor Barnabas Nawangwe receiving his first COVID-19 jab at Makerere University Hospital

The Director of Makerere University Hospital, Professor Josephat Byamugisha encouraged the University community to come and get vaccinated as this would protect all members of

the community from challenges of severe disease. The Director Makerere University Hospital also thanked the Ministry of Health, Kampala City Council Authority, and the World Health Organisation for the collaboration through which they got training, the vaccines and follow up support in case the vaccine recipients had any side effects. The trainings for university staff on vaccinations was to prepare them handle cases of side effects in the university community in case they occur.

The Director of Makerere University Hospital, Professor Josephat Byamugisha encouraged the University community to come and get vaccinated as this would protect all members of the community from challenges of severe disease. The Director Makerere University Hospital also thanked the Ministry of Health, Kampala City Council Authority, and the World Health Organisation for the collaboration through which they got training, the vaccines and follow up support in case the vaccine recipients had any side effects. The trainings for university staff on vaccinations was to prepare them handle cases of side effects in the university community in case they occur.



The Director University Hospital Professor Josephat Byamugisha, receives his vaccination



Professor Damalie Nakanjako, Principal, Makerere University College of Health Sciences receives vaccination against COVID-19 on 20th March 2021. MOH Photo



Dr. Alfred Driwale Assistant Commissioner Vaccines and Immunization (UNEPI), Ministry of Health preparing Makerere University Hospital staff and Makerere University Communications Officers on 19th March 2021 for the vaccination campaign to the University community and the public.

The EpiCovid Mobile Tracer App

The COVID-19 pandemic is unprecedented in both scale and impact. This study developed a mobile application with inbuilt epidemiological surveillance, case, and contact tracing system for COVID-19. The epidemiological surveillance system relies on the health facility, and community data collected to identify, and triage COVID-19 cases. The general objective is to help in informing the necessary decision to be taken by the health workers while at the same time improving on data capture, management, reporting, and use by stakeholders.



Dr. Harriet Babikako (R) explaining how the EpiCovid Tracer App works to Prof. Moses Joloba. Right is Haron Gichuhi, one of the investigators on the study.

Community Service

Cango Lyec Study; Developing and Testing interventions to Reduce HIV risk, increase access to treatment and promote resilience among war-affected populations in Northern Uganda

This is a five-year research project conducted by Makerere University, in collaboration with the University of British Columbia, and St. Mary's Hospital, Lacor. The overall objective is to develop and test innovative interventions for prevention of HIV and treatment of AIDS and other related conditions among war-affected populations in Northern Uganda.

This year, the project disseminated findings from its baseline survey conducted in the districts of Gulu, Omoro, Nwoya and Amuru. The findings indicate that while the UNAIDS aims at reaching the 95-95-95 target by 2030, awareness of HIV+ status among people living with HIV (PLHIV) was 59.5%. Of these only 57.8% on on ART, and of those on ART, only 86.8% had acquired viral load suppression. Findings also showed that chronic hepatitis B was endemic at 10.1% in the study

communities. Other STIs including syphilis were common at 5.6%. The situation is made more complex with the presence of post-traumatic stress disorder (PTSD) prevalent at 9.7%, higher in females (11.3%), than males (7.1%).

It is therefore important that Culturally-safe, Strengths-based, Trauma-informed, Technology-enhanced (CSTT) interventions are initiated to improve access to and uptake of HIV, Hepatitis B, and trauma services in the war affected populations.

The School of Biomedical Sciences supported training of healthcare workers' on various COVID-19 standard operating procedures including sample collection from COVID-19 patients/cases/travelers, in line with the Ministry of Health guidelines, and training of both staff, outside training services to MUNI University, Mbarara University, and several private organizations for COVID-19 testing and processing.



Project Staff handing over a hand washing facilities, masks and IEC materials in one of the study communities



Student Activities

Leadership Handover Ceremony: The new leadership for Makerere University College of Health Sciences Students Association (MakCHSSA) was sworn into office at a colourful ceremony held on the 26th November 2021. Ignatius Asasira (MBChB IV) handed over office to the incoming President Benjamin Semata (BSc. Medical Radiography III). In attendance was the

Patron of the association Prof. Damalie Nakajanko, Principal – College of Health Sciences, Dr. Evelyn Nabunya – Director, Mulago Specialised Women & Neonatal Hospital (MSWNH), Dr. Nankunda Jolly (Deputy Director MSWNH), Dr. Oledo Samuel – President, Uganda Medical Association (UMA) and other guests. Presenting his cabinet, Semata highlighted some of the issues they hope to work

on students handover during their term of service including: 1. Advocating for re-establishment of a functioning ICT lab for students; 2. Improving students' welfare at the college through social activities like sports gala; 3. Improving students research and innovative skills in conjunction with the alumni through projects like the "Annual College Day"; 4. Holding medical outreach to communities; and 5. Establishing a student trust-fund project to support final year private students with financial problems.

Medical students hosted their annual dinner at Skyz Hotel, Kampala where they honored some faculty for their distinguished commitment to teach. Dr Philip Kasirye, Professor Kiguli and Associate Professor Annettee Nakimuli received awards recognition from the students.



The Principal-College of Health Sciences, Prof Damalie Nakanjako (centre) with the outgoing and incoming student leaders at the college of Health Sciences for 2021/2022 academic year



Professor Damalie Nakanjako, Principal-College of Health Sciences hands over award of appreciation from students to Professor Sarah Kiguli

MakCHS Student Innovation shines at the HIHA 2021 Awards

A team of students led by Ms. Anna Maria Gwokyalya - 4th year student of Medicine and Surgery at the College of Health Sciences (MakCHS), Makerere University won the award of 'Student Innovation of the Year' at the Heroes in

Health Awards (HIHA) held on the 12th November, 2021. Her innovation was a book "The Mugisha' COVID-19 Tale" designed to help children be more involved in the fight against the Covid-19 pandemic.

Inaugurated in 2019, The Heroes in Health Awards (HIHA) is a public private initiative adopted by the Ministry of Health with the support of Xtraordinary Media to offer opportunity to

members of the public to motivate Uganda's excellent health sector players, recognize and encourage new innovations that will transform our health care system.

Human Resource Unit Achievements

During the reporting period the following were appointments and promotions in the College of Health Sciences.

| No. | Name | School | Department/Unit | New Status/Designation |
|-----|---|---------------|--|---|
| 1 | Associate Professor Annetee Olivia Nakimuli | Medicine | Obstetrics & Gynaecology | New Dean from 18th February 2021 |
| 2 | Dr. David Musoke | Public Health | Disease Control and Environmental Health | New Chair of the Grants and Research Capacity Building Committee on 23 March 2021 |
| 3 | Dr Tonny Luggya | Medicine | Anaesthesia | New Chair of Department |
| 4 | Dr. Angelina Kakooza | Medicine | Paediatrics & Child Health | Promoted to Associate Professor |
| 5 | Dr. Victor Musiime | Medicine | Paediatric & Child Health | Promoted to Associate Professor |
| 6 | Dr. Robert Opika Opoka Akwede | Medicine | Paediatric & Child Health | Promoted to Associate Professor |
| 7 | Dr. Damalie Nalwanga | Medicine | Paediatric & Child Health | Appointed as Assistant Lecturer |
| 8 | Ms. Sarah Nakibuuka | | Procurement Unit | Procurement Officer transferred to College |
| 9 | Mr. Silver Imadu | | Office of the Principal | Administrative Assistant transferred to College |
| 10 | Ms. Josephine Nalweyiso | | Human Resources | College Human Resource Officer |
| 11 | Ms. Zaam Namuli Ssali | | Communication Office | Principal Communication Officer for CHS and School of Law |

The Human Resource Unit contacted several training sessions to staff and unit heads about the new electronic Human Resource Management System. The Human Resource Unit also received and submitted to the Director-Human Resource,

Makerere University the staff appraisal forms for the period January-December 2020. The unit handled annual leave for staff in line with the leave rosters and recommendation from the Heads of Department.

PARTNERSHIPS AND COLLABORATION

The Alliance Partnership

The Global Health and Science (the Alliance) is a partnership between the University of California, Berkeley and Makerere_University. Due to COVID 19, the 2021 Alliance Summer Institute was virtual. Through the institute, Makerere University students got opportunity to learn cutting edge vital skillsets for bioscience researchers from world class scientists from the University of California system, the Chan Zuckerberg Biohub, and SciDIP Global. The aims of the Alliance are to make tangible lasting impact

by focusing on locally identified health research needs and strengthening collaborations between the partners.

Leiden University Collaboration

A team from Leiden University, Netherlands visited the College of Health Sciences and met with the College Principal and the Dean School of Medicine to forge a collaboration. Leiden University is amongst those that conduct ranking for Health Institutions.



Prof. Nakanjako & Associate Prof. Nakimuli meeting Collaborators from Leiden University

The UNSW School of Optometry and Vision Science

The University of South West (UNSW) School of Optometry and Vision Science has a partnership with Makerere University. Through this partnership, the Optometry programme at the College of Health Sciences received various equipment. It received an Optical Coherence Tomography (OCT) machine from Light for the World. The OCT machine together with the Fundus Camera and Humphrey Visual Field machine donated by the same organization were installed at the Academic Vision Centre at Makerere University Hospital. The Optometry programme also received a number of diagnostic lenses, portable tonometers, a pachymeter and a portable slit lamp from the UNSW School of Optometry and Vision Science. The equipments'

are awaiting disbursement of shipment funds from the Bursars office. The Optometry programme also Requested to continue with the final students' exchange programme coordinated by the MakCHS International office.

Centre for Global Health at the Hospital for Sick Children (SickKids)

The collaboration between Makerere School of Public Health, the Centre for Global Child Health at The Hospital for Sick Children (SickKids), Toronto, Canada and Ministry of Health, Uganda, that supported a country case study on children under-fives years titled "Exemplars in Stunting Reduction" disseminated their findings in a workshop held at Golf Course Hotel, Kampala on Tuesday 30th March 2021.



A group photo for the Uganda Stunting Case Study team comprised of officials from Makerere School of Public Health, Ministry of Health and other technical members from government at the dissemination workshop held at Golf Course Hotel, Kampala on 30th March 2021.

Makerere University and the Western Connecticut Health Network

Makerere University and the Western Connecticut Health Network (WCHN) partnership on capacity enhancement in global health. This partnership allows staff exchange between the two institutions to further academic exchange, cooperation, staff development and training. The

WCHN under their NUVANCE Health conducted virtual lectures with MakCHS staff on different topics. Also, they provided ten thousand dollars to enable junior staff and others staff continue with their studies during the challenging times of COVID 19 pandemic.

Furthermore, NUVANCE Health under their Director of Global Health, Professor Majid Sadigh continued to mentor Master of Medicine graduate students at the College. To the extent that he sought money for tuition and expenses for two students. These students were found out from Professor Sadigh's virtual meetings with the senior graduate students. The intention was to assist the students such that they put all their attention on their studies. By doing so, the students would get time to provide emergency care and treatment to patients rather than work in private clinics to earn money for tuition and expenses. This response was to boost the growing need for emergency medicine specialists in the country. Some of the beneficiaries from the partnership between Makerere University College of Health Sciences and NUVANCE Health include: Dr. Asiimwe Kemigisha who developed the desire to train in Emergency Medicine as an intern doctor at Kisiizi Hospital Kagando, Kasese District. Dr. Kemigisha now pursues graduate studies in Medicine and provides patient care at the Emergency Unit of Mulago teaching hospital and its affiliated site of Kiruddu hospital.

Other beneficiaries from NUVANCE Health are in the field of Psychiatry. To address this critical gap of Psychiatrists who in the country total less than 50, Makerere University College of Health Sciences sought support from NUVANCE Health and University of Vermont. NUVANCE health in partnership with Ruggle Scholars offered financial support to three students pursuing Masters of Medicine in Psychiatry. The three Ruggle Scholars

are: Dr. Jackie Karungi, Dr. Claire Nakwagala and Dr. Tabith. The three residents are in their second year of study and have submitted their research proposal to the Institution Review Board for approval.



The Ruggle Scholars Dr. Jackie Karungi, Dr. Claire Kwagala and Dr. Tabitha at the Department of Psychiatry

Another beneficiary from Professor Majid Sadigh is Ms. Zahara Nabuyondo who graduated in May 2021 with a Bachelor's Degree in Nursing. Nabuyondo is an intern in the Oncology Department and desires to specialize in midwifery.

Collaborations:

The Department Microbiology has several collaborations with national and global partners to conduct the training of students and research. These research projects are enabled by partners from Case Western Reserve University USA, Salford University, St Andrews University, University of Georgia USA, University of Manchester, Trinity College Dublin, University of Oxford, Rutgers Medical Centre and Boston Medical Centre, UC Berkely among others



Students in a Laboratory Session

Courtesy Visit to MakCHS by Rector of the Somali National University

Prof. Hassan Omar Mahadalle – Rector of the Somali National University led a delegation from his University to pay a courtesy visit to the College of Health Sciences (MakCHS) on the 22nd November 2021. At MakCHS, Assoc. Prof. Isaac Kajja, Deputy Principal received the visiting delegation which was accompanied by Assoc. Prof. Fred Makumbi – Deputy Dean, School of Public Health, MakCHS. The courtesy visit came after a Memorandum of Understanding (MoU) signed earlier in the day between Makerere University and Somali International University.

Student and Staff Exchanges

Through the year the International Office provided logistical support to international students as well as academic mobility programme in a blended format i.e., physically and virtually. Despite mobility challenges caused by restrictions of COVID 19 pandemic like closure of airports, the College of Health Sciences hosted occasional scholars from all over the world. The students came from Spain (N=7), Norway (N= 4), Iran (N=1), Britain (N=2) Belgium (5), U.S.A (N=8), Chile (N=1) and Cameroon (N=1), Somalia (N=6).

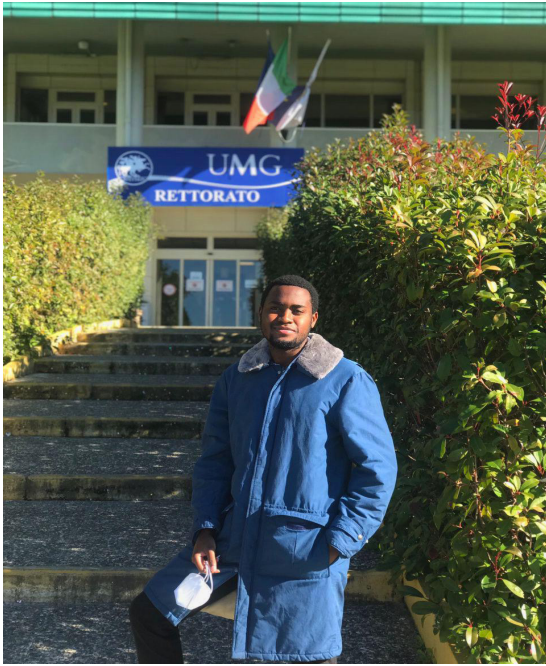


Students from University Of Catalunya, Spain

Outgoing Mobility

Through the student exchange framework between Magna University and Makerere University College of Health Sciences, 2 students at MakCHS (Keneddy Naigambi and Catherine Namara) were able to go to Italy for clinical rotations, the first undergraduate students to

undertake a rotation at Magna University. The rotation was facilitated with Erasmus Mundus Plus grant that the 2 institutions received to further academic cooperation.



Kennedy Naigambi



Catherine Namara

Virtual programmes with International Partners

The International Coordination Office organised virtual lectures for students and staff to promote virtual exchange despite the travel limitations. This was done in conjunction with partnering institutions like Des Moines University, Vermont University from the U.S.A. among others. Several graduate students and faculty were able to give sessions on topics like Covid19 in Uganda, uptake of preventive measures by the community and issues affecting health systems.

PUBLIC HEALTH SERIES COVID-19 RESPONSE AROUND THE WORLD

| FEB. 11 12 pm CST Zoom | FEB. 26 10 am CST Zoom | MAR. 4 12 pm CST Zoom | MAR. 24 9 am CDT Zoom | APR. 6 8 am CDT Zoom | APR. 21 9 am CDT Zoom | APR. 27 12 pm CDT Zoom |
|---|--|---|---|---|---|--|
| <p>What the Covid-19 pandemic has taught us about public health, healthcare, and human behavior</p> <p>DR. RACHEL REIMER Chair of the Department of Public Health, Des Moines University, Des Moines, IA, USA</p> | <p>Effect of the Covid-19 Pandemic on the Health System performance in Peru</p> <p>DR. EDGARDO NIEPO Professor, Health Sciences, Universidad Peruana de Ciencias Aplicadas (UPC), Lima, Peru</p> | <p>Covid-19 in Colombia: epidemiology and what has been done</p> <p>DR. MARÍA LUISA LATORRE Director of Master's in Public Health Program</p> <p>DR. JUAN CARLOS CORREA Professor, Master's in Public Health Program, Fundación Universitaria Juan N. Corpas, Bogotá, Colombia</p> | <p>Treatment claims, evidence and choices during the pandemic: The case of Covid-19 in Africa*</p> <p>MR. MICHAEL MUGISHA Researcher, School of Public Health, University of Rwanda, Kigali, Rwanda</p> | <p>Vietnam health system responses to Covid-19*</p> <p>DR. TO GIA KIEN University of Medicine and Pharmacy at Ho Chi Minh City, Vietnam</p> | <p>Covid-19 in Uganda: uptake of preventive measures by the community</p> <p>DR. DAVID MUSOKE Deputy-Dean of the Faculty of Public Health, Makerere University, Kampala, Uganda</p> | <p>The impact of Covid-19 on health and wellbeing and how frontline health workers have managed the pandemic</p> <p>DR. CYMARA KUEHNER Relationships and Educational Affairs Executive Coordinator, Centro Universitário Christus (Unichristus), Fortaleza, Brazil</p> |

*IN PARTNERSHIP WITH THE GLOBAL ENGAGEMENT INSTITUTE (GEI)

Poster for Public Health Virtual Lectures

Memoranda of Understanding with Partner Institutions

Through the International Office, various memorandum of understanding with partner Institutions have been established, reviewed and forwarded to the partners. The memorandum of understanding between Kalorinska Institute and

Makerere University to establish a global Centre of Excellence for Sustainable Health (CESH) held virtually on 29th January 2021. The Centre is in line with Sustainable Development Goals and Agenda 2030.



Ole Petter Ottersen, President, Kalorinska Institute, Sweden and Professor Barnabas Nawangwe, Vice Chancellor Makerere University signed a memorandum of understanding to establish the Centre of Excellence for Sustainable Health on 29 January 2021. Photo: Ulf Sirbom, Bildmakarna

Other Memoranda of Understanding signed include:

| No. | Institution | Area of Collaboration | Document |
|-----|----------------------|--|---------------------------------|
| 1 | Karolinska Institute | Exchange of students & staff | Letter of collaboration |
| 2 | Karolinska Institute | Master's degree (project & dissertation) | Education Cooperation agreement |
| 3 | Karolinska Institute | Capacity building for health professionals | Memorandum of Understanding |
| 4 | Karolinska Institute | Research & education (sustainable health) | Collaboration agreement |
| 5 | Sapienza University | Online courses (Africa continent) | Agreement for Virtual learning |
| 6 | John Peter Smith | Graduate students placements | Letter of agreement |

Other activities carried out by the International Office included: (i) logistical support to international students for long term programmes like degrees and short-term programmes. Despite the COVID-19 challenges the College hosted students from Benadir University, Somalia; John Peter Smith Health Network USA and other institutions. (ii) Reviewed and submitted to the Ugandan Medical and Dental Practitioners Council 14 doctors requests for temporary Medical licenses and Annual practicing licenses for visiting Faculty and Students from partners' institutions like the John Peter Smith Health Network. (iii) Processed and submitted to the Ministry of Internal Affairs Visa applications for International Students granted as Student Passes for graduate students from the Schools of: Medicine, Biomedical Sciences, Public Health and Health Sciences.

Centre of Excellence for Sustainable Health

The centre was officially launched on September 16, 2021, at an online event attended by 197 participants from 15 countries, 147 organisations and 30 universities. The keynote speakers, young and upcoming researchers, Rawlance Ndejjo from the School of Public Health, Mak and Giulia Gaudenzi from the Department of Global Public Health at KI, spoke on the topic *Challenges and opportunities for Sustainable Health*. The event was moderated by Erika Bjerström, senior foreign news correspondent with National Swedish Television (SVT) and Roy Mayega, senior lecturer at Mak. Barnabas Nawangwe, Vice-Chancellor at Mak declared the centre officially launched following speeches by KI President Ole Petter Ottersen and Project managers of the Centre, Tobias Alfvén and Rhoda Wanyenze.



The aim of the project is to develop the capacity of fragile states to create and implement cost effective and innovative solutions to help reach the sustainable development goals in cooperation between Karolinska Institutet, Makerere University in Uganda, Benadir University in Somalia and University of Kinshasa School of

Public Health in the Democratic Republic of the Congo. It is a two-year project funded by Sida. During the pre- project, inception phase (6 months) 2021, the project was planned, staff were recruited, and three SDG workshops has been carried out with 30 participants in each partner country i.e., DRC, Somalia and Uganda.





EDUCATION FOR INTER-PROFESSIONAL HIV CARE IN UGANDA (EIPHIV-U)

Introduction

Makerere University Joint AIDS Program (MJAP) is a Ugandan Private Not-for-profit Non-Governmental Organization (NGO) of Makerere University which was established in 2004. The mandate of MJAP is to provide comprehensive HIV service delivery, training, research, and health systems strengthening in relation to HIV/AIDS and other diseases of public health importance in Africa.

In line with her mandate, in September 2019?, MJAP competitively received funding from the Strengthening Interprofessional Education for HIV (STRIPE HIV) program at the University of California San Francisco (UCSF), to implement Interprofessional Education (IPE) for health. The training was to be offered using case-based modules that spanned the entire continuum of HIV care and include the health building blocks and use of quality improvement methods among others.

To implement this program in Uganda, MJAP (at Makerere University) as the Prime partner institution, collaborated with four other institutions of higher learning (Busitema University School of Medicine, Clarke International University, Kabale University School of Medicine and Nsambya Hospital) most of which were part of the Medical Education Partnership Initiative (MEPI) and the Ministry of Health (MOH). This collaborative effort was named Education for Interprofessional HIV service delivery in Uganda (EIPHIV-U) project

The goal of the EIPHIV-U was to equip Uganda's in-service and next generation of HIV health care providers as Interprofessional practitioners, with enhanced knowledge and skills aligned with PEPFAR Country Operational Plan (COP) and Uganda Ministry of Health (MoH) priorities to achieve the UNAIDS 95-95-95 goals. The project upheld the principles of continuous quality improvement (CQI) and continuous learning to provide high quality team-based care for people living with HIV (PLHIV).

Project Implementation

Training of Trainers (TOT): There was a central TOT attended by faculty and preceptors from the five collaborating institutions and their respective training clinical sites

Program set up.

During the first year of implementation (September 2019- Feb 2020) the project used the case-based STRIPE-HIV Modules at the collaborating institutions and clinics to facilitate learners with interactive face-to-face learning sessions on how to provide IP care for PL HIV. However, due to COVID-19 related restrictions, training for the rest of the first year and through the second year was conducted using online platform using a process described hereafter. First, a well contextualized online curriculum using the SRIPE HIV case based modules was developed in collaboration with MOH curriculum specialists. Second, we engaged information technology (IT) experts to set up the Learning Management System (LMS) and provide other IT support. Third, we set up interactive video technology for facilitating IPE & IPP the Mulago Immune Suppressive Syndrome (ISS) Centre of excellence for HIV care as a training hub while observing. The recommended COVID-19 preventive measures, we conducted face-face TOT workshops at the Mulago ISS training hub to a total of 33 facilitators in five days. For each of the five days an interprofessional mix of about faculty and preceptors were introduced to the online training platforms and provided e-learning training skills. A zoom room license enabled ongoing small group discussion sessions and also simultaneous interuniversity interprofessional mix. In addition, a mobile application (which supports offline access especially when in areas with limited internet connectivity) was developed to support easy accessibility of learning content.

Trainee selection

For the face to face training, trainees were selected through their institutions led by the institutional focal persons, this mainly targeted the finalists and the most recent graduates from the partner institutions. For the E-learning pilot

project, the project advertised via online platforms which included social media and asked potential learners to express interest by completing a google form. For the pilot phase of E-learning we received 450 applicants of whom 97 learners were enrolled (20 where affiliated to Busitema, 20 to Makerere, 20 to Kabale, 20 to Nsambya Hospital & 17 to CIU. During Year-2 funding, we used the same approach as for the E-learning pilot project and received over 600 applications for the training from across the country (figure ii) where we selected and trained 496 learners who met the project criteria.

Conduct of the training

During the Year 2 online training, we trained 496 learners on the EIPHIV-U Learning Management System (LMS) in monthly cohorts. Each of the five collaborating institutions met their target of training 90 learners within three months. We targeted interprofessional in-service groups of learners for the training.

Post training follow up and evaluation

After completion of the training, we conducted online case-based mentorships to trainees from health facilities that had three or more interprofessional learners complete the EIPHIV-U course. The aim was to promote interprofessional discussions and practices at these health facilities. The mentorships focused on patient-based scenarios and health systems challenges, all presented by the course alumni and modulated by the EIPHIV-U course facilitators. We completed 25 mentorship sessions with 185 learners participating. The mentorships consolidated the lessons from the trainings and empowering the trainees to identify existing gaps in health service delivery and address them as an interprofessional team.

Key achievements during the training period

| S/N | Name of Institution | Face-to-face training | | Online trainings | |
|-----|----------------------------------|--------------------------|------------|--------------------------|------------|
| | | Number of people trained | | Number of people trained | |
| | | Target | Actual | Target | Actual |
| 1 | Makerere University | 200 | 222 | 90 | 112 |
| 2 | Clarke International University | 90 | 92 | 90 | 92 |
| 3 | Nsambya Hospital training school | 90 | 128 | 90 | 89 |
| 4 | Kabale University | 90 | 118 | 90 | 101 |
| 5 | Busitema University | 90 | 95 | 90 | 102 |
| | Total | 560 | 655 | 450 | 496 |

Major achievements of the EIPHIV project include positive engagement with multiple health institutions of health learning and HIV service delivery facilities, training of participants from across the country (see fig i) the successful transition to online trainings and mentorship, two abstracts were presented at the e AFREhealth symposium, three of the EIPHIV facilitators were competitively selected for the “Prof. James Hakim Leadership Development Program” (figure i).

Figure i: EIPHIV-U faculty who were selected and completed the Prof. James Hakim Leadership Development Program at AFREhealth.



Figure ii: Map showing the different destinations of applicants for the online training

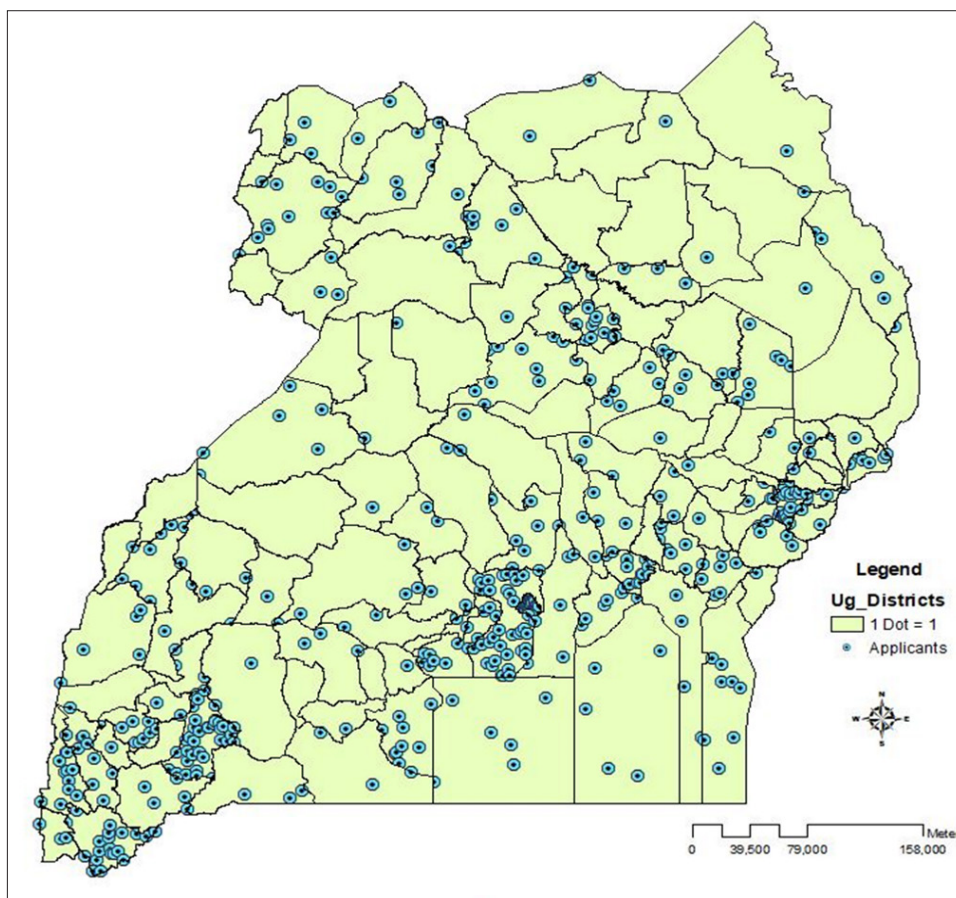
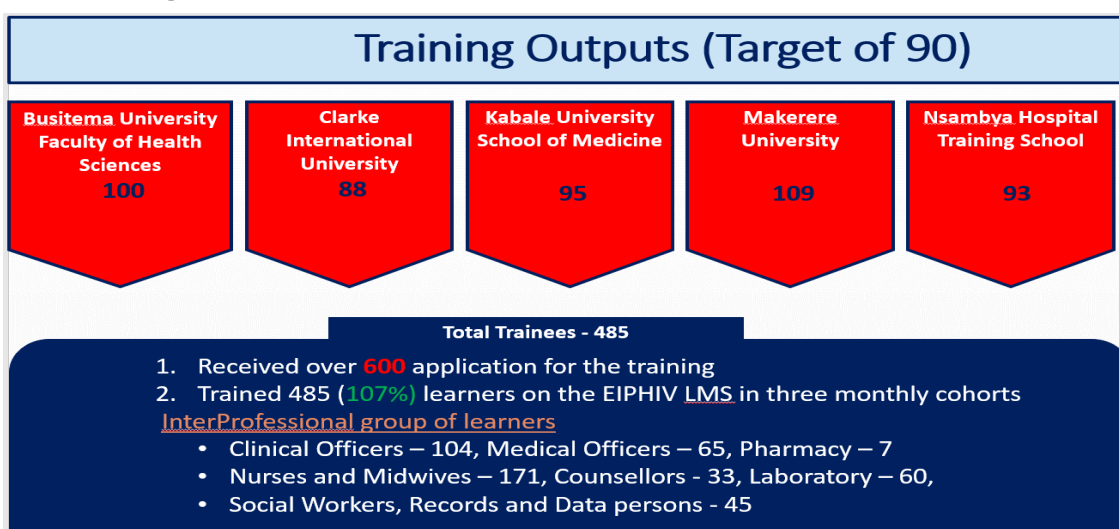


Figure iii: Training outputs per collaborating institutions for Year 2 of the program



Lessons learned

Enrollment of health care providers from the same health facility yields quicker and more sustainable change towards IPP. Online training compared to physical/workshop approaches reaches more health care providers and in real time.

Challenges

The COVID-19 related restrictions on physical meetings affected the initially designed delivery methodology but innovations were made to use virtual methodologies. Some health workers felt overstretched, making time for working and training at the same time. Targeting pre-service health workers was not translating into the desired change due to limited HIV care experience, although this knowledge was found to be very desirable and useful in practice. Most of the challenges were appropriately addressed and enabled the project to achieve desired outputs.

Conclusion and recommendation

The Inter-professional approach to HIV care has demonstrated a good practice that needs to be scaled up to reach many facilities in the country. This approach is also recommended for use in managing other public health conditions such as Non-Communicable Diseases COVID-19 among others.

PICTORIAL DIGEST



Picture i: Physical interprofessional trainings during the pre-COVID-19 period.



Picture ii: a group session in Kabale University (Pre-COVID-19 period)



Picture iii: Kabale hospital and University Leadership during the TOT in Kabale (Pre-COVID-19 period)



Picture iv: The PI facilitating a group session of TOTs during the Pre-COVID-19 period



Picture v: Dr. Sam Tumwesigye (Dean School of Medicine, Kabale Univ) next to Dr. Semitala (PI) with trainers after the project entry meeting and signing of the MOU at Kabale University



Picture vi: Postgraduates from the departments of Internal medicine, Paediatrics and Obstetrics and gynecology at the Makerere University College of health Sciences during the physical interprofessional training for quality HIV care (Pre-COVID-19 period)



Picture x: Professor Nelson Sewankambo & Dr. Fred Semitala during the official launch of the online/Video learning Equipment at Mulago ISS Clinic Training Hub.



Picture vii: The participants and facilitators of the Initial TOT at Makerere



Picture xi: Facilitators during the EIPHIV-U TOT workshop/session at the Mulago ISS Training Hub.



Picture viii: Participants of Busitema University in the physical trainings.



Picture xii: Dr. Clarke Nanyonga (Vice Chancellor of Clarke International University) giving opening remarks during one of the face-face training in the institution



Picture ix: Facilitators after the initial meeting to strategize for the online shift of the training

QUALITY ASSURANCE AND GENDER

Gender in the College of Health Sciences

The College of Health Sciences recognized the role played by various gender in its functions. It appreciated the contribution of female staff to the success of the College in its rankings, academia, research and innovation and community service. All efforts are being made to reduce on the wide gap between the various gender in the College by continuously including women in all its academic and administrative functions. Out of the College academic staff total of 309, 30.4 percent are female academic staff and 69.6 percent are male academic staff. Despite their smaller number, the female academic staff have made outstanding contributions to academia, research and innovation in the College.

Quality Assurance Activities

Quality Assurance activities are spearheaded by a Quality Assurance and Gender committee. The committee has a membership of 15 people. Of these, seven members are ladies. The committee is comprised of Prof. Damalie Nakanjako, Assoc. Prof. Isaac Kajja, Prof. Moses Galukande, Prof. Josephat Byamugisha, Prof. Moses Joloba, Assoc. Prof. Pauline Byakika, Dr. Jane Namatovu, Dr. Alison Kinyegere, Dr. Beatrice Achan, Dr. Ireeta Munanura, Dr. Pakoyo Kamba, Dr. Kalidi Rajab and Ms. Irene Rebecca Namatende.

During the reporting period, the Quality Assurance Unit undertook the following activities. The unit held two committee meetings on 9th February 2021 and 9th March 2021. It implemented phase I of the Baseline Survey and conducted monitoring visits to Makerere University Hospital and the Department of Dental Services. The phase I of the Baseline survey

was undertaken in the School of Medicine on 10th February 2021 and in the School of Biomedical Sciences on 26th February 2021. Phase II of the Baseline survey is planned for August in the School of Health Sciences and School of Public Health.

The phase I of the Baseline Survey aimed at seeking *information on teaching* and learning, research and innovation, community services, and support functions of finance and human resource. The survey identifies minimum indicators from the College of Health Science Strategic Plan 2020-2030 to be annually tracked; develop a database for these indicators and them to evaluate changing trends in enrollment, graduation rates and number of programmes.

The Quality Assurance Committee conducted a monitoring visit to Makerere University Hospital on 25th March 2021. The team was led by Dr. Beatrice Achan and included Dr. Alison Kinengyere, Dr. Khalid Rajab, Mr. Okiror Godwin, Ms. Lydia Nakanjako and Ms. Irene Rebecca Namatende. The team noted that the University

Hospital was offering commendable community services to the University community and the public. These services included being amongst the first to provide authentic COVID-19 testing, authorized to conduct COVID-19 vaccination and participation in the COVID-19 vaccination campaign. These services were enabled by its support from the College and the University and collaboration with the Ministry of Health. Furthermore, the University Hospital was actively conducting research in the neighboring communities and creating awareness campaigns on HIV control through male circumcision.



The Quality Assurance team with the staff of Makerere University Hospital



The Quality Assurance team reviewing the facilities of the University Hospital



The Quality Assurance members with the team leaders of Makerere University Hospital

The Quality Assurance Committee conducted a monitoring and evaluation visit to the Department of Dentistry on 29th April 2021. The visit led by Prof. Moses Galukande aimed at monitoring the current status of the department and mapping its assets. Team found that the department had acquired modern equipment and used these

to set up a dental clinic. The dental clinic was offering modern dental services to the University community and the public. The department also had a reasonable number of staff training its students. The department was awaiting the completion of its new building.



Dr. Annet Kuteesa, Head- Department of Dentistry making a presentation to the Quality Assurance Committee



The Quality Assurance team sharing a jubilant moment with the staff of the Dentistry Department



The staff of the Department of Dentistry attending a presentation made by their team leader to the Quality Assurance Committee



Staff at the Dental Hospital offering clinical services to a University community member using their modern equipment

GRANTS AND CONTRACTS

The College of Health Sciences shared with staff 128 grant opportunities through the website, emails and through outreaches to the different departments. Out of the grant opportunities shared, 7 opportunities were signed up for development. In total 33 grants have been awarded during the reporting period (appendix 1).

| Grant status | Number |
|---------------------------|------------|
| Opportunities shared | 128 |
| Signed up for development | 07 |
| Awarded | 33 |
| Total | 168 |



APPENDICES

Appendix 1:

Grants received by faculty at MakCHS

| No. | Title of submitted Grant | Principal Investigator | Amount |
|-----|--|--------------------------------------|---------------------------|
| 1 | Applying a metagenomics approach in understanding clinical antibiotic resistance using wastewater sediment sourced from manholes draining critical care units of Mulago Hospital, Uganda | Dr. Aruhomukama Dickson | \$108,000 |
| 2 | Etiological Role of Parasitic Exposure and Familial Susceptibility in Nodding Syndrome | Dr. Idro Richard | \$111,888 |
| 3 | Development and validation of a fetal monitoring system to improve maternal healthcare | Dr. Ononge Samuel | \$50,000 Canadian dollars |
| 4 | Associations between PM2.5, Source-Specific PM2.5, and Acute Cardiovascular and Respiratory Event Rates in Urban Kampala, Uganda. | Dr. Shelton Tendai Mariga | \$ 216,889.49 |
| 5 | Role of HIV infection in SARS-CoV-2-specific T cell Responses in Ugandan COVID-19 patients | Ms. Atuheirwe Maxine's | £ 299,929 |
| 6 | Addressing Child Behavioral Health by Strengthening Financial Stability and Parenting among Families in Uganda | Dr. Noeline Nakasujja | \$ 75,600 |
| 7 | Predictors of the Great Obstetrical Syndromes in Africa: a prospective cohort study among Ugandan women recruited in early pregnancy | Assoc. Prof. Annetee Olivia Nakimuli | \$ 977,146 |
| Nº | Title of awarded Grant and subcontract | Principal Investigator | Amount |
| 1 | Strengthening Interdisciplinary Research in Technology Translational Pathways for Improved Maternal and Child Health in Uganda | Dr. Robert Sekitoleko | £ 25,000 |
| 2 | How are different low-middle income countries implementing primary health care team integration to support delivery of comprehensive primary health care | Dr. Besigye Innocent | \$ 30,000 |
| 3 | Characterizing the influence of parasite variation on visceral leishmaniasis | Prof. Joseph Olobo | £47,362 |
| 4 | Engaging Young People in the Development of Digital Mental Health Innovation in Africa | Dr. Mwaka Erisa | £ 6,000 |

| | | | |
|----|--|--------------------------------------|-------------|
| 5 | Early pregnancy predictors of pre-eclampsia and its adverse outcomes in Uganda: a prospective cohort study at a busy peri-urban Hospital | Assoc. Prof. Annetee Olivia Nakimuli | £297,855 |
| 6 | Mechanisms of transcriptional regulation of ccr5 and host genetic control of HIV | Prof. Moses Joloba | \$ 54,000 |
| 7 | Pediatric HIV/AIDS & Infection-Related Malignancies Research Consortium for sub-Saharan Africa (PARCA) | Prof. Moses Joloba | \$ 272,862 |
| 8 | Mobile Phone enabled Diagnostics for Infectious Disease Diagnosis | Dr. Robert Sekitoleko | £ 18,387.25 |
| 9 | Research training and mentorship to strengthen brain health across the lifespan in Uganda | Dr. Mark Kaddumukasa | \$1,149,999 |
| 10 | Predictors of local emergence and spread of Artemisinin resistance among Ugandan Plasmodium falciparum parasites | Dr. Moses Ocan | € 149,950 |
| 11 | Pilot of a network-driven, advocacy intervention to promote cervical cancer screening in Uganda | Prof. Rhoda Wanyenze | \$ 396,019 |
| 12 | Using new genomic approaches to investigate causes of maternal sepsis among women delivering in sub-Saharan Africa | Prof. Annetee Olivia Nakimuli | \$ 99,999 |
| 13 | Enhancing Research for Inflammation and Cognitive Health in Perinatally Acquired HIV (ENRICH PHIV) | Dr. Reuben N Robbins & Joy Onoria | \$ 429,127 |
| 14 | An Open Access and Online Digital Archive for Histopathology/Cytotechnology to Enhance Pathology Training in Ugandan Universities' | Dr. Waiswa Ali | \$ 5000 |
| 15 | Strengthening the mental health (MH) care system in Uganda using a co-created 'mhGAP Plus' approach for Skills Building of non-specialist clinical and community staff, and local leaders. | Dr Catherine Abbo | £350,000 |
| 16 | Improving post-harvest practices to minimize losses in the nutrient content of consumed foods | Prof. Charles B. Ibingira | £6,900 |
| 17 | Strengthening Interdisciplinary Research in Technology Translational Pathways for Improved Maternal and Child Health in Uganda | Dr. Robert Sekitoleko | £25,000 |
| 18 | Capacity building for a Centre of Design, Innovation and Translational Excellence (CITE) for clinical trials of healthcare technologies in Sub Saharan Africa | Dr. Robert Sekitoleko | £ 96,120.49 |
| 19 | Advancing Research Ethics Training in Southern Africa (ARESA) Leadership Program | Dr. Ochieng | \$ 5400 |

| | | | |
|----|---|--------------------------------------|--------------|
| 20 | To build capacity for vaccine development in Africa by generating and deepening African knowledge about the genome specificity of COVID-19 in Africa and the apparent high number of asymptomatic cases in Africa, and facilitating cross-border research into host-pathogen interactions influencing clinical outcomes in Africa | Prof.Damalie Nakanjako | \$500,000 |
| 21 | UKRI GCRF Engaging Young People in the development of Digital Mental Health Innovation in Africa | Dr. Mwaka Erisa | £17,700 |
| 22 | Maternal Mental Health in Uganda - Pathways to Resilience | Dr. Robert Sekitoleko | \$ 8,085.22 |
| 23 | LEISH ACCES- The Framework Programme for Research and Innovation | Prof. Joseph Olobo | €54,000 |
| 24 | Characterizing the influence of parasite variation on visceral leishmaniasis' | Prof. Joseph O. Olobo | £50,257 |
| 25 | A Targeted self-Management intervention for reducing Stroke Risk factors in High-Risk Ugandans | Dr. Elly Katabira | \$332,651 |
| 26 | International Center for Child Health and Development (ICHAD) | Dr. Fred Ssewamala | \$ 47,725 |
| 27 | Pediatric HIV/AIDS & Infection-Related Malignancies Research Consortium for sub-Saharan Africa_PARCA | Prof. Moses Joloba | \$ 55,868 |
| 28 | Unravelling the genetic Risk Underlying Major Depressive_ | Dr. Kalungi | \$67,920 |
| 29 | Achievements and ongoing research in the field of Antimicrobial resistance | Dr. Mboowa Gerald | £10, 000 |
| 30 | Strengthening early detection of retinal ocular complications of HIV and diabetes using Optical Coherence tomography (OCT) imaging in Uganda | Dr. Robert Sekitoleko and Juliet Oti | \$342,453 |
| 31 | Building Implementation Science Capacity at Makerere University to Strengthen the Response to the HIV/AIDS Epidemic in Uganda | Prof. Moses Robert Kamya | \$ 1,493,963 |
| 32 | Strengthening Makerere University's Research Administration Capacity for efficient management of NIH grant awards (SMAC) | Stella Kakeeto | \$ 105,708 |
| 33 | International Center for Child Health and Development (ICHAD) | Fred Ssewamala, | \$ 47,725 |

Other developments in the Grants and Contracts unit include the following:

- A newsletter is under development.
- Participation in the review of written policies to guide the College in grant agreements.
- Development of a grants database.
- Built capacity of its internees and enrolled them for online IDRC G11 training sessions for grant administrators.
- Participation in the development of the Grants manual for the University and this has been approved by Council.
- Supported and participated in research administration training in grants writing at Soroti University

APPENDIX 2

Student Numbers at MakCHS

Table 1: Students Enrolled and Registered at College of Health Sciences 2021

| Study Programme | En-rolled | Regis-tered | En-rolled | Regis-tered | En-rolled | Regis-tered | En-rolled | Regis-tered | En-rolled | Regis-tered |
|--|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|
| | YR1 | | YR2 | | YR3 | | YR4 | | YR5 | |
| SCHOOL OF MEDICINE | | | | | | | | | | |
| Bachelor of Medicine & Bachelor of Surgery | 157 | 150 | 153 | 128 | 191 | 142 | 164 | 111 | 188 | 116 |
| Bachelor of Science in Medical Radiography | 15 | 15 | 18 | 16 | 39 | 25 | 30 | 18 | 0 | 0 |
| Bachelor of Science in Speech & Language Therapy | 11 | 10 | 9 | 9 | 21 | 9 | - | - | - | - |
| Bachelor of Science in Palliative Care | - | - | - | - | - | - | - | - | - | - |
| Total (Undergraduate) | 183 | 175 | 180 | 153 | 251 | 176 | 194 | 129 | 188 | 116 |
| M.MED Internal Medicine | 16 | 14 | 11 | 8 | 11 | 2 | | | | |
| M.MED Obs & Gyn | 39 | 32 | 25 | 10 | 17 | 6 | | | | |
| M.MED Opthamology | 3 | 2 | 4 | 0 | 2 | 2 | | | | |
| M.MED Orthopaedics | 13 | 10 | 4 | 1 | 9 | 5 | 7 | 6 | | |
| M.MED Paediatrics & Child Health | 29 | 23 | 17 | 13 | 27 | 17 | | | | |
| M.MED Psychiatry | 5 | 4 | 4 | 1 | 2 | 2 | | | | |
| M.MED Radiology | 11 | 11 | 9 | 7 | 6 | 0 | | | | |
| M.MED Ent | 3 | 3 | 3 | 0 | 2 | 0 | | | | |
| M.MED Anaesthesia | 14 | 7 | 5 | 1 | 9 | 4 | | | | |
| M.MED Family Medicine | 5 | 0 | 1 | 1 | 2 | 2 | | | | |
| M.MED Surgery | 14 | 14 | 17 | 9 | 21 | 7 | | | | |
| | YR1 | | YR2 | | YR3 | | YR4 | | YR5 | |
| M.MED Neuro Surgery | 3 | 3 | 3 | 2 | | | | | | |
| MSc. Clinical Epidemiology & Biostatistics | 17 | 16 | 25 | 13 | | | | | | |
| MSc. Health Professions Education | 5 | 2 | 1 | 1 | | | | | | |
| M.MED Emergency Medicine | 3 | 2 | 1 | 0 | 5 | 1 | | | | |
| PhD (Medicine) | 5 | 4 | 5 | 3 | 2 | 1 | 2 | 2 | | |
| Total (Graduate Students) | 185 | 147 | 135 | 70 | 115 | 49 | 9 | 8 | 718 | |
| SCHOOL OF BIOMEDICAL SCIENCES | | | | | | | | | | |
| Bachelor of Biomedical Sciences | 28 | 24 | 49 | 38 | 81 | 41 | | | | |
| Bachelor of Biomedical Engineering | 35 | 25 | 45 | 42 | 28 | 24 | 50 | 29 | | |
| Bachelor of Cytotechnology | 5 | 7 | 17 | 14 | 35 | 21 | | | | |
| Total (Undergraduates) | 68 | 56 | 111 | 94 | 144 | 86 | 50 | 29 | 638 | |

| Study Programme | En-rolled | Regis-tered | En-rolled | Regis-tered | En-rolled | Regis-tered | En-rolled | Regis-tered | En-rolled | Regis-tered |
|---|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|
| MSc. Immunology & Clinical Microbiology | 35 | 18 | 22 | 13 | | | | | | |
| MSc. Pathology | 6 | 3 | 0 | 0 | 5 | 5 | | | | |
| MSc. Pharmacology | 6 | 5 | 7 | 3 | | | | | | |
| MSc. Physiology | 2 | 1 | 1 | 0 | | | | | | |
| MSc. Health Bioethics | 6 | 1 | 5 | 2 | | | | | | |
| MSc. Bioinformatics | 22 | 10 | 24 | 11 | | | | | | |
| MSc. Human Anatomy | 4 | 3 | 0 | 0 | | | | | | |
| PhD (Biomedical Sciences) | 5 | 2 | 2 | 2 | 5 | 4 | 3 | 1 | | |
| PhD (Bioinformatics) | 4 | 1 | 1 | 0 | | | | | | |
| Total (Graduate Students) | 90 | 44 | 62 | 31 | 10 | 9 | 3 | 1 | 250 | |
| SCHOOL OF PUBLIC HEALTH | | | | | | | | | | |
| Bachelor of Environmental Health Sciences | 39 | 32 | 44 | 40 | 71 | 34 | | | | |
| Total (Undergraduate students) | 39 | 32 | 44 | 40 | 71 | 34 | 260 | | | |
| MSc. Public Health (Full-time) | 43 | 39 | 48 | 40 | | | | | | |
| MSc. Public Health (Distance) | 76 | 62 | 70 | 67 | 60 | 31 | | | | |
| | YR1 | | YR2 | | YR3 | | YR4 | | YR5 | |
| MSc. Biostatistics | 13 | 10 | 14 | 17 | | | | | | |
| MSc. Disaster Management | 5 | 4 | 11 | 7 | | | | | | |
| MSc. Public Health Nutrition | 10 | 6 | 7 | 6 | | | | | | |
| MSc. Health Informatics | 9 | 6 | 14 | 8 | | | | | | |
| MSc. Health Science Research | 8 | 7 | 13 | 9 | | | | | | |
| MSc. Monitoring & Evaluation | 17 | 15 | 17 | 16 | | | | | | |
| PhD Public Health | 1 | 0 | 6 | 4 | | | 1 | 0 | | |
| Total (Graduate students) | 182 | 149 | 200 | 174 | 60 | 31 | 1 | 0 | 797 | |
| SCHOOL OF HEALTH SCIENCES | | | | | | | | | | |
| Bachelor of Science in Nursing | 19 | 17 | 26 | 24 | 24 | 20 | 40 | 20 | | |
| Bachelor of Dental Surgery | 26 | 24 | 25 | 19 | 48 | 43 | 35 | 28 | 48 | 31 |
| Bachelor of Optometry | 10 | 10 | 16 | 15 | 15 | 14 | 16 | 16 | | |
| Bachelor of Dental Technology | 9 | 8 | 0 | 0 | 6 | 5 | | | | |
| Bachelor of Pharmacy | 67 | 62 | 50 | 45 | 71 | 70 | 111 | 71 | | |
| Total (Undergraduates) | 131 | 121 | 117 | 103 | 164 | 152 | 202 | 135 | 48 | 31 |
| MSc. Dentistry | 2 | 0 | 0 | 0 | | | | | | |
| MSc. Pharmacology & Therapeutics | 3 | 3 | 12 | 8 | | | | | | |
| MSc. Nursing | 10 | 8 | 3 | 3 | | | | | | |

| Study Programme | En-rolled | Regis-tered | En-rolled | Regis-tered | En-rolled | Regis-tered | En-rolled | Regis-tered | En-rolled | Regis-tered |
|---|----------------|-------------|-----------|-------------|-----------|-------------|------------|-------------|-----------|-------------|
| MSc. Pharmaceuticals & Health Supplies Management | 3 | 3 | 12 | 8 | | | | | | |
| MSc. Pharmacognosy | 6 | 3 | 1 | 1 | | | | | | |
| PhD Health Sciences | 8 | 4 | 2 | 2 | 1 | 0 | | | | |
| Total (Graduate Students) | 32 | 21 | 30 | 22 | 1 | 0 | 106 | | | |
| | | | | | | | | | | |
| COLLEGE TOTALS: | | | | | | | | | | |
| Undergraduate Students: Enrolled | - 2290 | | | | | | | | | |
| Registered | - 1662 | | | | | | | | | |
| Graduate Students: Enrolled | - 1115 | | | | | | | | | |
| Registered | - 756 | | | | | | | | | |
| Total Students: | - 3,405 | | | | | | | | | |



RESEARCH PUBLICATIONS

Arising out of the research activities by the MakCHS, research papers and other materials were produced which are presented below.

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10. Apunyo Robert, Howard White, Caroline Otike, Thomas Katairo, Sussana Puerto, Drew Gardiner, Alison Annet Kinengyere, John Eyers, Ashrita Saran, Ekwaro A. Obuku (2012). Interventions to increase

- youth employment: An evidence & gap map <https://doi.org/10.1186/s12963-020-00241-0>.
11. Awor, P., Kalyango, J. N., Stålsby Lundborg, C., Ssengooba, F., Eriksen, J., & Rutebemberwa, E. (2021). Policy Challenges Facing the Scale Up of Integrated Community Case Management (iCCM) in Uganda. *International journal of health policy and management*, 10.34172/ijhpm.2021.39. Advance online publication <https://doi.org/10.34172/ijhpm.2021.39>.
 12. Alison Annet Kinengyere, Julie Rosenberg, Olivia Pickard, Moses Kanya (2021). Making the case for librarian expertise to support evidence synthesis for the sustainable development goals.
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