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Prof. Damalie Nakanjako

Principal College of Health
Sciences

Principal's Message

It is my pleasure to present to you the report of the Makerere University College of Health Sciences (MAKCHS), for the year 2020. This report highlights broad activities of the College in our key mandates of teaching, research and service delivery.

I congratulate you for completing 2020 as winners, despite all the challenges that came with the unprecedented COVID19 pandemic. MAKCHS faculty rose up to take the COVID19 pandemic as an opportunity to grow, innovate and serve humanity by taking leading roles in the national response to COVID19 pandemic. My special thanks go to all MAKCHS faculty who kept on their feet as front-line health care workers to support case COVID19 case management at Mulago hospital, non-COVID essential medical care at our clinical teaching and service units at Mulago, Kawempe, Kiruddu, and Butabika, Public Health response in the community, and research to generate relevant local data on the pandemic; without forgetting the sustained teaching activities that were blended (online and relevant clinical interactions) to cope with the COVID19 standard operating procedures. Challenges come to make us stronger! MAKCHS faculty demonstrated the strength and utility of multi-disciplinary approaches to epidemic response by harnessing the multidisciplinary expertise in infectious disease care, laboratory diagnostics, disease prevention and control, mental health, mathematical modeling, research and innovation, leadership and communication; among others. The "muscle" MAKCHS developed

during the COVID19 pandemic will be utilized to make greater exploits during 2021.

MAKCHS has continued to lead innovations in medical education in the region; with the introduction of student-centered learning approaches to medical education; including problem-based learning, community-based education and research as a part of medical training, competence-based training and interprofessional education; all of which are the leading approaches to medical training worldwide. This has contributed greatly to keeping MAKCHS a leader in medical training and research in sub-Saharan Africa; ranking second after University of Cape Town.

I congratulate all staff who have earned accolades in their teaching, research and service activities in 2020 and I encourage all MAKCHS staff to keep up the habit of excellence. In my new role as Principal, I pledge to work with all our stakeholders; students, academic staff, administrators, partners, collaborators, and policy makers to meet the needs of our communities through our training, medical care, research and innovation programs. I wish you greater exploits for 2021 as we pursue our vision ***to be a leading and transformational institution for academic excellence and innovation in health sciences in Africa. For God and my Country***

Prof. Damalie Nakanjako
Principal College of Health Sciences



Assoc. Prof. Isaac Kajja

*Deputy Principal College of Health
Sciences*

2.0 Message from the Deputy Principal

Assoc. Prof. Isaac Kajja was appointed acting Principal of the College of Health Sciences at Makerere University for six months effective June - December 21, 2020. Since then he has remained the substantive Deputy Principal to the College of Health Sciences, Makerere University.

It was wonderful to work with everyone during my short tenure as acting Principal for MAKCHS. I came in, at a time when the COVID19 pandemic was continuing to impact teaching and learning,

research, training and community service, our stakeholders and families. However, the MAKCHS has remained a busy hub for virtual teaching and learning, research and innovation, and provision of service to community. The MAKCHS was able, through our undertaking detailed in this report, to impact our society in various ways. I greatly thank the faculty, staff, and students for their contribution towards the combat of the COVID19 pandemic during that period.



MAKCHS LEADERSHIP



Prof. Damalie Nakanjako
(Principal)



Assoc. Prof. Isaac Kajja
(Deputy Principal)

DEANS OF SCHOOLS



Prof. Rhoda Wanyenze
(Dean School of Public Health)



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



Dr. Annetee Olivia Nakimuli
Dean School of Medicine



Dr. Fred 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
(Orthopedics)



Assoc. Prof. Elizabeth Ekirapa Kiracho
(Health Disease Control & Policy
Planning & Management)



Assoc. Prof. Esther Buregyeya
(Environmental Health)



Prof. Byakika Pauline
(Department of 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)



Dr. Dralega Anguyo
(Optametry)



Dr. Noah Kiwanuka
(School of Public Health)



Dr. Ezekiel Mupere
(Paediatrics)



Dr. Arinaitwe Muwanguzi Patience
(Nursing)



Dr. Onyango Jude Tadeo
(Family Medicine)



Dr. Alison Kenegyere
(Library)



Dr. Noeline Nakasujja
(Psychiatry)



Dr. Rita Nassanga
(Radiology)



Dr. Herbert Muyinda
(CHDC)



Dr. Annette Kutesa
(Dental)



Prof. Joan Kalyango
(CEU Unit)



Ms. Ahabwe Precious
(SLT)



Dr. Tonny Stone Luggya
(Anaesthesia)



Dr. Musa Sekikubo
(OBS and Gyn)



Dr. Stephen Mpungu Kiwuwa
(Biochemistry)



Dr. Otiti Juliet Sengeri
(Ophthalmolgy)

OVERVIEW

The Makerere University College of Health Sciences (MAKCHS), for the year 2020. This report highlights broad activities at the MAKCHS. The college was founded in 1924 as Makerere University Medical School. In January 2008, the Faculty of Medicine and Institute of public health were transformed into the College of Health Science (MAKCHS) of Makerere University; which consists of four schools; School of Medicine, School of Biomedical Sciences, School of Public Health and School of Health

Sciences. From its inception, the CHS recognized teaching, research, training and community services as her core responsibilities.

In 2020, the College had a total of 484 staff members, consisting of 22 professors (according to QA report), 34 associate professors, 50 senior lecturers, 154 lecturers and 26 assistant lecturers. CHS has a student population of about 2,500 with up to 30% graduate students.

Enrollment.

Below is the table showing enrollment

Table I

| TOTAL NUMBER OF STUDENTS IN CHS, AS OF 1ST SEMESTER 2020/2021 ACADEMIC YEAR (AS PER PER THE AIMS SYSTEM) | | | | | | | | | | |
|--|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|
| | 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 | | |
| Bachelor of Science in Speech & Language Therapy | 11 | 10 | 9 | 9 | 21 | 9 | | | | |
| Bachelor of Science in Palliative Care | | | | | | | | | | |
| Total (Undergraduates) | 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 Ophthalmology | 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 | | | | |
| 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 | | | | |
| Doctor of Philosophy (School of Medicine) -Phme | 5 | 4 | 5 | 3 | 2 | 1 | 2 | 2 | | |
| Total (Graduates) | 185 | 147 | 135 | 70 | 115 | 49 | 9 | 8 | | |
| | | | | | | | | | | |
| 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 | | |

Overview

Teaching and Learning activities



3.0 Teaching and learning activities

3.1 Academic Programmes

The MAKCHS runs programmes ranging from Diploma, Bachelor, Masters and Doctorates under the four schools. There are 5 Diploma programmes, 16 Bachelors programmes, over 34 Masters programmes and Doctorate degrees by coursework/and or by research (see <https://chs.mak.ac.ug/programme>).

3.2 New Academic Programmes

A new Master of Science in Conservative Dentistry was presented by MAKCHS to the Senate Committee for approval and later to National Council for Higher Education (NCHE) for Accreditation. More new academic programmes based on demand were under development in the different schools.

3.3 Student enrollment and student fellowship

3.3.1 Student enrollment

The MAKCHS has about 2500 students pursuing studies at diploma, undergraduate, masters and doctorate levels.



Laboratory teaching activities



*Simulation laboratories: Orthopedics
Simulation of pelvic external fixation*



Bed-side teaching activities

Teaching and learning

MAKCHS contributed to clinical teaching materials for graduate students on wards and theaters at Mulago hospital, Kawempe referral hospital and Kiruddu referral hospitals



Dr. Sekimpi, Head of Orthopedics department with his team

3.3.2 Accreditation

The Department of Dentistry under MAKCHS was re-accredited by the East African Medical and Dental Council. Furthermore, its new clinic building adjacent to the Don Bosco underwent construction, roofing, plastering, shattering and

the floor were all completed. New modern dental equipment for the building were delivered and commissioned. A proposal to transform the Department into a School was developed and submitted to the Academic registrar's office.

3.3.3 Virtual learning and Conferencing

The MAKCHS was able, using virtual teaching and conferencing, to continue with its teaching and participation in meetings and conferences despite the COVID19 pandemic lock-down. The departments were able to use the Makerere University E-learning (MUELE) platform to teach students and conduct examinations. The final year students were able to complete their studies and graduated. Doctoral students were able to make their thesis defenses, present concepts and proposals. The faculty were able to hold their departmental and faculty board meetings and participate in International conferences.

3.3.4 The online students' assessment and feedback survey

The Quality Assurance Unit conducted an online students' assessment survey. The survey is an ongoing activity meant to solicit feedback from students on their experiences using the Open Distance E-learning (ODEL) approach. The survey also sought student perception of teaching and learning using the Makerere University Electronic Learning (MUELE) system and other electronic media distance education platforms like Zoom. This survey was particularly important as online learning has now become a government system of teaching and learning following the challenges created by COVID19 pandemic. The survey would provide necessary information needed to aid in the decision making towards improvement of students teaching and learning using MUELE and ZOOM platforms.



Staff attending the presentation of the results from the online survey

3.3.5 Programme approved and accredited

Compilation was in progress for all curriculum/ programmes that were approved by Senate and Council and accredited by National Council of Higher Education.

3.3.6 Standard Operating Procedures in the Albert Cook Library

The library just like the rest of the College prepared for the return of students by designing new library rules and regulations that emphasized

the Standard Operating Procedures (SOPs) set by the World Health Organization and Ministry of Education to prevent the spread of COVID19. The rules emphasized social distancing, hand washing, sanitizing and wearing of masks. (i). Social distancing was achieved by the removal of more than 50 percent of the seats and tables and the remaining 50 percent seats were spaced leaving a 1-meter distance between them (see figure below).



Social distancing in the Library emphasized



(ii) Hand washing was realized by the placement at the Library entrance a hand washing machine donated by the Principal's office (see figures below). Due to limited staff and the realization of the need to continuously empty the water used and to refill the jerry-can with clean water, the hand washing machine's drainage outlet was connected to the National Water and Sewerage Corporation (NWSC) system. Also, a tap was

provided next to the machine to help re-fill the jerry cans with clean water. The Library was also provided with liquid soap used in the hand-washing machine. In addition, a jerry-can with a tap was acquired to supplement the hand washing machine, especially when there was no electricity, or when the user numbers increased. The library users were orientated on how to use the hand washing machine.



Ag. Principal handed over the hand washing machine to the Library



Tap connected to re-fill the jerry-can



Hand washing machine connected to NWSC system

- (iii) Sanitizing was realized in the Library by acquisition of sanitizers and dispensing bottles placed at entrances. In addition, library cleaners sanitized tables and chairs every morning before users entered. (iv). Wearing of masks was emphasized all the time, while in the Library (see figure). The Library staff led by example, by always wearing their masks.



Library staff members wearing their masks

3.4 Information Literacy in the Library

From August to October 2020, the Library conducted three sessions for students and staff using online ZOOM platform. The sessions provided literacy on how to register and use the Up-to-date clinical decision support tool for research and clinical practice. In total 65 trainees attended the sessions. The session conducted on 25th August 2020 had 20 trainees; session of 11th September 2020 had 32 trainees and session of 29th October had 13 trainees. In August 2020, 3,069 log ins were registered, September 2020 registered 2,843 users, and November 2020 registered 7,583 users. The increased log-in was

attributed to the awareness conducted by the library Up-to-date Training Champions.

The Librarian also had a session of developing search strategies for systematic reviewers which was organized by the Africa Centre for Systematic Reviews and Knowledge Translation (ACS, in conjunction with THRIVE, (under MakRIF funding), where 10 science journalists were trained (see figure). A total of 120 students who completed their studies were cleared by the Library, and their theses uploaded into the Makerere University Institutional Repository (MakIR).



Dr. Alison Kinengyere training science journalists



3.5 Community Based Education and Services (COBERS)

The MAKCHS through its Community Based Education and Services (COBERS) supervised and mentored to completion 13 Year 4 undergraduate students at Atirir Health Center IV, Soroti district. These students conducted a research titled "Increasing awareness and educating people about purification of drinking water in Atirir B and Abia villages, Soroti district in the community.

3.6 Public Health Fellowship Programme Activities

The Public Health Fellowship Programme – Field Epidemiology Track (PHFP – FET), is a 2-year training through service programme in applied epidemiology and public health leadership. It is implemented by Makerere University

School of Public Health in partnership with the Ministry of health with support from the US Centre for Disease Control (CDC). From August to November 2020, the programme supported 25 Fellows of which 12 Fellows were enrolled in 2019 and 13 Fellows enrolled in January 2020. The Fellows were supported to provide technical assistance and fill key human resource gaps at the Ministry of Health, work with HIV implementing partners and CDC Uganda to implement 6 HIV/TB related projects, conduct 10 quality improvement projects, and conduct 28 applied epidemiological investigations including response to the COVID-19 pandemic in Uganda. During the same period, the programme hosted the 6th Annual Field Epidemiology Conference in which 25 abstracts were presented and the 1st Regional Field Epidemiology Conference organized by AFENET in which 11 abstracts were presented by current residents.

3.7 Graduate training and research

3.7.1 Graduate fellows

In the reporting period, six PhD fellows from the School of Medicine (SOM) and three PhD fellows from School of Health Sciences (SHS) attained full and partial admissions depending on their progress. Four of those from the SOM were faculty and the three from SHS were faculty. These were:

3.8 Faculty and Staff, promotions and fellowships

3.8.1 Faculty and Staff

The MAKCHS at January 2020, had a total of 484 faculty and staff. The faculty include professors with specialization in different fields and assistant lecturers and technicians (see table below).

| Category | Female | Male | Total |
|--------------------------------|------------|------------|------------|
| A. Academic staff | | | |
| Professor | 07 | 13 | 20 |
| Associate Professor | 06 | 28 | 34 |
| Senior Lecturer | 17 | 33 | 50 |
| Lecturer | 58 | 96 | 154 |
| Assistant Lecturer | 00 | 26 | 26 |
| Teaching Assistants | 00 | 01 | 01 |
| Total | 88 | 197 | 285 |
| B. Administrative Staff | 08 | 35 | 43 |
| C. Support staff | 74 | 42 | 116 |
| Stop gap/hospital | 22 | 18 | 40 |
| Total College Staff | 192 | 292 | 484 |

3.8.2 Promotions and appointment as Professor Emeritus

During the year 2020, the following faculty were promoted and one appointed Professor Emeritus of Makerere University (see table).

| No. | Name | Gender | Promotion/ Appointment | Unit |
|-----|--------------------------|--------|---------------------------|------------------------------|
| 1. | Dr. Victor Musiime | M | Associate Professor | Paediatrics and Child Health |
| 2. | Dr. Robert Opika Opoka | M | Associate Professor | Paediatrics and Child Health |
| 3. | Dr. Mwaka Erisa Sabakaki | M | Associate Professor | Biomedical Sciences |
| 4. | Ms. Precious Ahabwe | F | Lecturer | Speech and Language Therapy |
| 5. | Mr. Kirum Gonzaga Gonza | M | Lecturer | Biomedical Sciences |
| 6. | Prof. Nelson Sewankambo | M | Professor Emeritus | Medicine |

Faculty training on AIMS



3.8.3 Fellowships and International awards

In 2020, the following members of faculty were honored with fellowships and recognition amongst global experts.

1. Professor Galukande Moses and Dr. Kakembo Nasser were honored as Associate Fellow Members of the American College of Surgeons (ACS).
2. Dr. Phyllis Kisa was awarded as an Adjunct Professor at the University of British Columbia, Division of Urologic Sciences and Branch of International Surgery, Keynote speaker at Michigan State University and Penn State University Global Surgery symposium.

3. Dr. Jane Nakibuuka was elected to the Fellowship of the Royal College of Physicians of Edinburgh on 17th February 2020.
4. Assoc. Prof. David Meya was internationally rated among top 0.077% global experts in cryptococcosis.

3.9 New faculty entrants and resignations

A new lecturer Dr. Okeny Paul Kalanda joined the Department of Surgery and those who resigned from University Service were (see table). MAKCHS appreciates all the contributions from our outgoing faculty and wishes them all the best in their respectively new assignments

| No. | Name | Gender | Designation | Unit |
|-----|-------------------------------|--------|---------------------|------------------------|
| | Dr. Lynnette Kyokunda Tumwine | F | Associate Professor | Pathology |
| | Dr. Emmanuel Timarwa Ayebale | M | Lecturer | Anaesthesia |
| | Dr. Patson Makobore | M | Lecturer | Surgery |
| | Dr. Lillian Nabukeera Mukisa | F | Lecturer | Family Medicine |
| | Ms. Jemini Patel | F | Assistant Lecturer | Allied Health Sciences |

3.9.1 Contract Appointments

Senior staff who are still very productive in graduate training research and resource mobilization were offered post retirement contracts to continue mentoring the upcoming

faculty because of their ongoing contributions to academic activities at the college. The following members of faculty were given post retirement contracts and others renewed (see table)

| No. | Name | Gender | Contract status | Unit |
|-----|---------------------------------|--------|-----------------|--|
| | Prof. Moses Kamyia | M | Post retirement | Internal Medicine |
| | Dr. Paul Kiondo | M | Post retirement | Obstetrics and Gynaecology |
| | Prof. Orach Christopher Garimoi | M | Post retirement | Community Health and Behavioral Sciences |
| | Prof. Richard Odoi Adome | | Renewed | Pharmacy |
| | Dr. Fred Wabwire-Mangen | | Renewed | Epi- Bio |
| | Dr. Josephine Namuganwa Kasolo | | Renewed | Physiology |

3.9.2 Appointment into Academic Leadership

We welcome the new leaders into service and pledge to support them in their new assignments. The following members of faculty were appointed into academic leadership (see table).

| No. | Name | Gender | Status | Unit |
|-----|-----------------------------|--------|-------------------------|--|
| | Dr. Ezekiel Mupere | M | Substantively appointed | Paediatrics and Child Health |
| | Dr. William Buwembo | M | Substantively appointed | Anatomy |
| | Dr. Annetee Olivia Nakimuli | F | Substantively appointed | Obstetrics and Gynaecology |
| | Prof. Damalie Nakanjako | F | Substantively appointed | College Principal with effect from 1st December 2020 |

3.10 Student mobility program

3.10.1 Outgoing students:

The COVID19 pandemic resulted into the cancellation of most study abroad programme for students at MAKCHS by the host institutions of Yale University School of Medicine, Des Moines University, University of Washington, U.S.A and Karolinska Institutet, Sweden. However, two students namely Mr. Daniel Blair Ondongokara and Ms. Bridget Nakazibwe from Department of Dentistry were able to complete their placement abroad under the student exchange (LP) programme between Makerere University and Karolinska Institutet from March to May 2020. International students on degree programmes were supported with visa application from the

Ministry of Internal Affairs by the International office. During the reporting period, over 15 visa applications were uploaded online as advised by the visa section Ministry of Internal affairs. The International office updated a list for all graduate international students at the MAKCHS with the Ministry of Internal affairs to expedite their visa applications.

3.10.2 Incoming students:

In response to border restrictions due to COVID19 pandemic, most occasional students had to abruptly travel back to their home countries. Sixteen of these students were from University of Bergen, Norway, and others were from Sacred Heart University and University of California San Fransico.

| No. | Name | Concept/Proposal Title | Admission | University |
|-----|---------------------------|---|-----------|---|
| 1 | Dr. Badru Sekitoleko | "Urothelial Carcinoma among Patients in Mulago National Referral Hospital: Risk factors, Immunohistopathological Features, Molecular Characterization and Predictors of Survival." | Full | Makerere University |
| 2 | Dr. Lekuya Hervé | "Depressed skull fractures: timing of surgery, systemic inflammatory response, intraoperative blood loss, surgical site infection, and post-traumatic seizures-DESTINE Study" | Partial | Makerere University |
| 3 | Dr. Olivia Kituuka | "Informed consent process for emergency surgery at public and private surgical emergency units in an urban Ugandan setting". Full proposal was approved by School of Medicine Research and Ethics Committee (SOMREC) and awaited approval from Uganda National Council of Science and Technology (UNCST) to get full admission. | Partial | Makerere University |
| 4 | Dr. Mbiine Ronald | "Efficacy of Adipose Derived Stromal Vascular Fraction in the treatment of keloids". | Partial | Makerere University |
| 5 | Dr. Timothy Makumbi | "Efficacy of Autologous Adipose Derived Stomal Vascular Fraction in the treatment of Keloid" | Partial | Makerere University |
| 6 | Dr. Rose Alenyo | Proposal writing stage | Partial | Makerere University |
| 7 | Dr. Namatovu Jane Frances | "Continuing professional development for primary care doctors in low resource settings: developing a competency-based framework.'Proposal presented to Higher Degrees Committee. Awaits full registration | Full | Makerere University |
| 8 | Dr. Besigye Innocent | "Evaluating the use of the primary care assessment tool to improve primary care performance in Tororo District, Uganda". | Full | Stellenbosch University Cape Town, South Africa. |
| 9 | Dr. Onyango Jude | "Family support, diabetes self-management and glycemic control among patients attending regional referrals hospitals in Eastern Uganda". Won Junior faculty research award from HEPI project. | | Makerere University |
| 10 | Dr. Okuuny Vincent | "Determining the effect of family course on undergraduate medical education course at Makerere University College of Health Sciences". Won Junior faculty research award from HEPI project. | | Makerere University |

4

Research activities & Collaborations



4.0 Research activities and Collaborations

4.1 Health Professions Partnership Initiative: Health Professions Education and training for strengthening the health system and services in Uganda (HEPI-SHSSU)

HEPI-SHSSU is an innovative Education Research NIH funded program implemented by a partnership between Makerere University College of Health Sciences, Busitema University School of Health Sciences, Kabale University School of Medicine, Clarke International University, Mulago School of Nursing and Midwifery, The African center for Global health and social transformation (ACHEST), Yale University and John Hopkins University (JHU).

The goal of this HEPI program is to improve service delivery of the Ugandan health system through strengthened interdisciplinary health professional education and research training to produce graduates with competencies to address the priority health needs of the population.

HEPI Program aims:

- a. To enhance Health Professions' Education (HPE) and training to produce health professionals who are competent to address the priority health needs of Uganda;
- b. To strengthen the capacity of graduating health professional students to remain and practice in Uganda, serve as faculty and/or conduct research related to HIV/AIDS and other health priorities;
- c. To enhance institutional systems to sustain transformative health professions education in Uganda.

The 5 Year-Program started in August 2018. In 2020, to address the COVID19 epidemic, HEPI was instrumental in supporting partner institutions train faculty in designing and implementing E-learning, using institutional electronic learning

platforms. HEPI engaged the Open and Distance Centre, Makerere University, and trained over 100 faculty from partner institutions. In addition, over 150 faculty at MakCHS were supported, and students were trained in use of Makerere University E-Learning Environment (MUELE) by the College ICT team, supported by HEPI. More than 100 on line/blended learning courses have been developed and uploaded.

In order to enhance competence-based education, JHU worked with SOM, MakCHS to evaluate the implementation and assessment of competencies outlined in the MBChB program. This has revealed areas where we are doing well, as well as gaps that we need to address in the training of medical students.

Faculty development in all partner institutions in innovative education methods (simulation base learning, PBL, Inter Professional Education, Assessment of clinical competence (OSCE), as well as mentorship in 2020. In order to improve the supervision skills of faculty, HEPI in partnership with Makerere School of graduate studies trained over 40 faculty in graduate students' research supervision. The faculty developed plans to improve graduate research supervision at personal and departmental levels.

In 2020, the HEPI program trained and awarded research grants to 9 Junior faculty 100 undergraduate students (from 17 teams), scholarship for 15 graduate students and 2 PHD students; and trained 100 health workers serving in rural districts in COVID19 and Non Communicable Diseases. We now have 50 graduate students and 4 PHD students supported by HEPI. In addition, the program supported UMDPC to conduct training for members of its Examination Board, Reviewers of curricula, and to conduct a Study to assess the situation of Internship Training in Uganda.

4.2 Makerere University -Uganda Virus Research Institute Infection and Immunity Program (MUII) plus at their 2020 annual general meeting met with collaborating institutions in

Africa including the Center for emerging and re-emerging infections CREMER in Cameroon and University of Makeni in Sierra Leone. MUIplus is completing a five-year capacity building grant funded by the Developing Excellence

in Leadership, Training and Science (DELTAS) Africa which is a US\$100 million program supporting Africa-led development of world-class researchers and scientific leaders in Africa.



Left-right in the picture Professor Alison Elliot Director MUIplus and Professor Damalie Nakanjako honoring Dr Marcel Tongo Passo from the Center for emerging and re-emerging viruses (CREMER), Cameroon.

Post-doctoral scientist in Infection and Immunity trained by MUIplus, Dr. Rose Nabatanzi, working with specialized equipment flowcytometry for immunology studies to understand immune recovery of individuals aging with HIV. These techniques are being utilized to understand immune recovery of COVID19 disease in Ugandan populations



Post-doctoral scientist in Infection and Immunity trained by MUIplus, Dr Moses Egesa, training upcoming scientists on laboratory techniques



4.3 Training Health Researchers into Vocational Excellence (THRiVE).

Regional network of research excellence, funded by the DELTAS Africa initiative. THRiVE has offered young scientists (post-graduate and post-doctoral fellows) the opportunity of a mentored research experience through several training and research activities.



Martin Mbonye, THRiVE PhD fellow showcasing his research on men's uptake of HIV services to secondary school students during the Uganda Virus Research Institute Open day



Prof. N. Sewankambo, THRiVE's Director addresses the inaugural meeting of the Makerere University and Gulu University collaboration under the THRiVE Consortium



Prof. M. Galukande, Chair of the Department of Surgery and THRiVE Postdoc Fellow presents his progress on his THRiVE Postdoctoral Fellowship, in the presence of Dr Achilles Katamba from the Department of Medicine.

4.4 Achievements in 2020

Innovations

4.4.1 Publications

The CHS in 2020 published 24 academic papers in various journals (see appendix 2). These publications have greatly contributed to CHS local and international rankings.

4.4.2 Research Grants

A total of 21 research grants (see appendix 1, table 1) were won by faculty members from Makerere Research Innovation Fund (Mak-RIF), Health Professional Education Partnership Initiative (HEPI), National Institutes of Health (NIH). The other grants (appendix 1, table 2 and 3 were already running). Through these grants, the MAKCHS increased its research and innovation outputs, capacity to attract fundable research projects, and mobilize funds from development partners.

4.5 Partnerships and Collaborations

The CHS was able to establish partnerships and collaborations with other universities (see appendix 1). A number of memorandum of understandings (MoUs) were signed with these institutions (see appendix 3). This has greatly benefitted the CHS through staff and student fellowships, joint research and teaching and to offer joint doctorates.

4.5.1 Partnerships

The partnerships from SBS included: (i). An MOU with Kiruddu referral hospital for supply of teaching specimens to the department. (ii). With different funeral homes mainly for body treatment and storage. (iii). With different medical schools to supply teaching specimens.

The Department of family medicine was in the process of signing a Memorandum of Understanding (MoU) with George Institute in Australia.

4.6 Grants and Contracts office

A database for all grants at the College was developed by the grants office. The database was to help smoothen grant activities and management.

4.7 Financial support

The Accounts unit during the reporting period supported all College units as follows: (i). Prepared payments for salaries, allowances and procurements among others. (ii) Prepared of Financial reports and statements such as bank reconciliation statements, and annual financial

reports. (iv). Filed tax returns and appointment of Tax agents. (v). Compiled performance reports for both projects and Government of Uganda (GOU) funding. (vi) Liaised and supported function for both of statutory and other audits at the college.

Other achievements are incorporated in the sections of teaching and learning, research innovations and outreach.

4.8 Procurement support

The procurement unit executed the following activities during the reporting period.

| Month | Description | Amount (UGX) |
|-----------|--------------------------------------|--------------|
| August | Micro-procurements (below 5 million) | 81,751,804 |
| | Macro-procurements (above 5 million) | 100,832,800 |
| September | Micro-procurements (below 5 million) | 720,326,122 |
| | Macro-procurements (above 5 million) | 196,243,750 |
| October | Micro-procurements (below 5 million) | 52,223,900 |
| | Macro-procurements (above 5 million) | 47,871,596 |
| November | Micro-procurements (below 5 million) | 47,871,596 |
| | Macro-procurements (above 5 million) | Nil |

4.9 Makerere Researchers developed an Alcohol and Drug Abuse Surveillance System

Substance abuse is one of the leading risk factors for high burden of alcohol related disease globally. Although the highest levels of alcohol consumption were in Europe, Africa had the heaviest burden of disease and injury attributed to alcohol. Compelled by a major interest in the prevention of alcohol and drug abuse in Uganda, Makerere University School of Public Health conducted a study aimed at understanding the plight of alcohol and drug abuse in Rehabilitation Facilities in the Kampala Metropolitan Area. In their project called "Setting up an epidemiological Alcohol and Drug Abuse Surveillance System," the researchers

designed a tool for extracting information from clients' files. Also, they trained health workers on how to fill the tool, enter the data in a data base and report about it. The study was successfully executed and disseminated at the School of Public Health on 14th October 2020 using funds from the Government of Uganda under the Makerere University Research and Innovations Fund (Mak-RIF). The study team comprised of Prof. Nazarius Mbona Tumwesigye, Assoc. Prof. Ponsiano Ocama, Dr. David Basangwa, Dr. Flavia Matovu, Dr. Catherine Abbo, Mr. Twaibu Wamala, Ms. Claire Birabwa, Ms. Cissie Namanda, and Mr. Ronald Twesigomwe.



Associate Professor Nazarius Mbona Tumwesigye, the Principal Investigator Dr. Catherine Abbo and Dr. Hafsa Lukwata, the Acting Assistant Commissioner Mental Health at the Ministry of Health

4.10 Family Planning Round 7 Study Conducted, Resident Enumerators and Supervisors Retooled

In August 2020, a three-week intense training for Resident Enumerators (REs) and Supervisors was held in preparation for the Family Planning Round 7 (FPR7) data collection and Performance Monitoring for Action (PMA). The training objectives were to ensure that REs were able to conduct high quality and high data accuracy interviews with members of the community,

map and list households and service delivery points with accuracy, read all questions with ease, understand and employ the necessary vocabulary around family planning, reproductive health and COVID-19 in order to categorize responses on these subjects. The results of the FPR7 study conducted from 122 enumeration areas across the country were released at a dissemination breakfast dialogue meeting held on Monday 14th December 2020.



PMA Principal Investigators: Dr. Fredrick Makumbi (L) and Simon Peter Kibira (R) leading sessions during the Supervisor/ QC and RE trainings respectively.

Performance Monitoring for Action survey

Performance Monitoring for Action (PMA) is a project driving a data revolution to guide family planning programmes. The PMA surveys collect actionable data on a variety of family planning topics through a sustainable, innovation driven data collection platform to inform governments, donors, programme managers and advocates in order to drive policy and programme changes.

4.11 Resilient Africa Network (RAN)

Resilient Africa Network (RAN) www.ranlab.org hosted at Makerere University School of Public Health was established on November 2012. The RAN is in its 9th year of implementation of cross disciplinary research and innovation activities towards strengthening resilience in targeted African communities. The RAN operates in four regional resilience innovation laboratories located at: Makerere University in Uganda; Sefako-Makgatho University in South Africa; University for Development Studies in Ghana and Jimma University in Ethiopia. The regional laboratories engage other universities in their respective regions bringing together a total of 20 African universities in 13 countries. The RAN's work in these regions is supported by four US-based partners: George Washington University supports the resilience arm; Stanford University-Center for Deliberative Democracy supports with Deliberative Polling (DP); Stanford University-Change Labs supports the innovation arm; and the Center for Strategic and International Studies supports documentation and dissemination work. In addition to providing solutions through innovation to address communities' diverse challenges, to further highlight the power of partnership and collaboration, RAN is engaged with different partners in the execution of various research and innovation programs that contribute to the achievement of Sustainable Development Goals (SDG). The details can be accessed from <https://www.ranlab.org/ran-projects#>

4.11.1 Research by Resilient Africa Network

In regard to research, the RAN team closely worked with partners from University of Nairobi (UoN), Kenya and Muhimbili University of Health and Allied Sciences (MUHAS), Tanzania. It conducted, documented and disseminated research on Digital Identification Systems in Uganda, Kenya and Tanzania. It shared the landscape around National Identity (IDs) in these countries, specifically understanding costs of implementation of the national digital identity systems, the socio-economic benefits and the challenges faced in implementing these systems in East Africa. Such efforts continued to enhance knowledge generation and sharing and also inform further research and policy. The report is shared and accessible from <https://www.ranlab.org/wp-content/uploads/2020/10/Understanding-the-Benefits-Costs-and-Challenges-of-the-National-Identification-System-in-Uganda-1.pdf> and <https://www.ranlab.org/wp-content/uploads/2020/10/Understanding-Socio-Economic-Benefits-Costs-and-Challenges-of-Digital-Identity-Systems-in-Uganda-Kenya-and-Tanzania-2.pdf>

To further generate and share knowledge, RAN through its strong community and partner engagements to foster research and innovation strengthened an evidence base with a number of research products including datasets, peer review articles, policy briefs and reports. These research products are available from <http://www.ranlab.org/resources/publications>.

4.11.2 Resilient Africa Network Innovations

With funding from United States Agency for International Development (USAID), UN Women, Ministry of Information Communication and Technology (ICT) and National Guidance and Government of the Republic of Uganda, the RAN team continued to nurture innovation ideas and accelerated them to tangible forms for community use to solve societal challenges.



Donor representative engagement at the RAN Innovation Lab

Adding to the pool of 54 running multidisciplinary innovative enterprises, 3 unique innovations thrived through the innovation ecosystem. Two innovations were:

- (i). AkataleFresh <https://www.akatalefresh.com/> an online store for ordering your daily fruits, vegetables, spices and herbs, grains and flour, animal products, bread and pastries, dairy products, seafood (see figure).

STAY SAFE

- Wash vegetables and fruits well
- Avoid touching money pay with mobile money or Visa cards

Order groceries from www.akatalefresh.com

Simply **Download Akatalefresh app** on Google play store on Android phones

CONTACTS

Customercare@akatalefresh.com

0788231353 or CALL: +256 703894958

@akataleapp facebook.com/Akataleapp Akataleapp

Freshly Delivered

- (ii). MyLib www.facebook.com/myliblive an interactive digital primary curriculum with funding from Ministry of ICT and National Guidance and the Centres4Her application <https://twitter.com/centres4her?lang=en> a mobile application that links girls and women experiencing violence to available support services and sexual reproductive services being funded by UN Women Uganda office.

In an effort to carry on with capacity building, over 100 budding innovative solutions continued to receive mentorship support as non-funded potentially innovative solutions and RAN still welcomes more innovators in need of mentorship support to book for pitch sessions at RAN premises on Plot 28, Upper Kololo Terrace, Kampala Uganda. A number of students, faculty and community members were supported to boost their innovation potential and RAN also increased its visibility as an Innovation Lab.

4.12 Research, Innovation and Community Outreach

Research

The School of Public Health continued to champion the Makerere University research agenda. During August and November 2020,

it was able to conduct and promote impactful public health research that addressed national, regional and continental needs. The current coronavirus pandemic provided an opportunity to urgently address key evidence issues. Using the Government of Uganda support through the Makerere University Research and Innovation Fund (Mak-RIF), the school was able to conduct crosscutting research that supported decision making by the Ministry of Health.

4.13 Refugee Lived Experiences, Compliance and Thinking (REFLECT) study

In October 2020, the Department of Health Policy Planning and Management (DHPPM) successfully held a dissemination on COVID-19 under the project Refugee Lived Experiences, Compliance and Thinking (REFLECT). This study was motivated by three issues: (i). Uganda's open-door policy on refugee hosting. (ii). COVID-19 pandemic, and (iii) the knowledge gap on COVID-19 impact in refugee communities. The researchers from the school in partnership with participants from academia, policy and practice commenced on a study that contributed to increased compliance with the Ministry of Health's Covid-19 prevention guidelines.



Group photo of participants for the REFLECT Study taken at Makerere University (CTF1 Building) during the launch of the study and dissemination of preliminary findings.

4.14 Adolescent Boys and Young Men (ABYM) health study

On 30th October 2020, the research team for the study *'What is up with adolescent boys and young men's health in Kampala, Uganda?'* hosted under the Department of Disease Control and Environmental Health disseminated results of their research conducted in Kampala. This project funded under Mak-RIF examined the health risk-taking behaviours of adolescent boys and young men (ABYM) including use of alcohol

and tobacco, sanitation and hygiene behaviours, sexual and reproductive health, intentional and unintentional violence, dietary behaviours, mental health issues, and the effects of COVID-19 on their lives. The study investigators were Professor Rhoda Wanyenze, Dr. Steven N. Kabwama, Dr. Ssekamatte Tonny, Dr. John Ssenkusu, Dr. Olive Kobusingye, Dr. Joseph K.B. Matovu, all from Makerere University School of Public Health.



Prof. Robert Wamala the Deputy Director Directorate of Research and Graduate Training (DRGT) at Makerere University (2nd from right hand side), Dr. Isa Kabenge (2nd from left hand side) and researchers for the study on Adolescent Boys and Young Men's health in Kampala Uganda.

5 Makerere University Health Services contribution to COVID19 pandemic responses



Contributions to COVID19 pandemic responses to support patient care, public health prevention and research



Members of the School of Medicine COVID19 pandemic taskforce, Dr Patrick Sekimpi, Head of Department of Orthopedic Surgery and Dr Juliet Otiti-Sengeri Head of Ophthalmology Department, with the Director General of Health Services Dr Charles Olaro received sanitizers and masks from Cairo Bank to support personal protective equipment supplies for protection against SARS-COV2 infections among health care providers.

5.0 Makerere University Health Services contribution to COVID19 pandemic responses

The responses by Mak Health Services included:

- (i). Provision of linkage to care for individuals with severe to critical COVID-19 disease. These were linked to the KCCA COVID-19 taskforce and Mulago National Referral COVID-19 treatment center.
- (ii). Involved on recommending and instituting Infection Prevention and Control (IPC) measures at several points within the University. Recommendations about points of temperature checks, hand washing points among others were made
- (iii). Involved in quality assurance of the several infrared thermoguns, facemasks procured by the University prior to resumption of studies. The MakHS were involved in receiving

- and verifying these materials.
- (iv). Supported the University in screening students found with high temperatures for COVID-19 during the end of semester examination period. Some of these were offered a free RT-PCR test for SARS-COV-2 depending on the presentation. They were able to contain the epidemic within campus by working closely with CHS leadership under Ag Principal, Assoc. Prof. Isaac Kajja.
- (v). Enlisted as a service provider under Insurance by IAA and UAP Old Mutual. This enabled MakHS provide services to Makerere staff more conveniently.
- (vi). Provided preventive and curative medicine for Makerere University students and staff as well as the

general public. These services continued even through the lockdown that had been instituted by His Excellency the President of Uganda and the Ministry of Health. On resumption of studies, Makerere University continued to treat students, staff and the general public. On average 60 students were treated daily at the University hospital. (vii). Provided immunisation services to both the Makerere University community and the general public. The MakHS was able to acquire more Hepatitis B vaccines from Government that were available free of charge. (ix). Mak Health Services won another RIF grant to assess prevalence of Reproductive Tract Infections amongst Makerere University students. (x). It was able to acquire and install a state of the art Intercom system within Makerere University hospital as part of infrastructure improvement. This further improved services at the hospital. (xi). Provided 24 hour services for the whole week following the recruitment of 10 staff in different units including an Optometrist. The other staff included a pharmacist, medical officers and a radiologist.

5.1 National Response to COVID19

Members of the Department of Medicine actively participated in the National Response to the COVID-19 pandemic through provision of scientific guidance as part of the Ministerial Scientific Advisory Committee, COVID-19 Case management committee, COVID-19 Clinical care in the treatment units and through conduction of research to guide policy.

5.2 International Recognition

MakSPH Partners commended for supporting Antimicrobial Stewardship in Uganda

In November 2020, the Public Health England, an executive agency of the Department of Health and Social Care in the United Kingdom gave an award for exceptional performance to Makerere University School of Public Health (MakSPH) for its outstanding role in strengthening antimicrobial stewardship in Uganda. The award was in recognition for the collaborative work on antimicrobial stewardship with Nottingham Trent University, Buckinghamshire NHS Healthcare Trust and other partners. This recognition was received at the Antibiotic Guardian Shared Learning and Awards 2020 (UK) under the category of Multi-Country Collaboration held online via zoom electronic media. See certificate 29 below.



Certificate of recognition for Makerere University School of Public Health at the Antibiotic Guardian Shared Learning and Awards 2020 (UK) under the category of Multi-Country Collaboration

5.3 Dissemination workshop for Exploring Children's Understanding of COVID-19 and its Preventive Strategies in Uganda study

On Thursday 26th November 2020, the Department of Community Health and Behavioural Sciences (CHBS) held a dissemination workshop for the study *"Exploring Children's Understanding of COVID-19 and its Preventive Strategies in Uganda"*. This followed a study conducted from August to September 2020 among 372 randomly sampled children aged 10 years to 13 years. The

respondents were from 18 randomly selected villages from Mparo and Bujumbura Divisions of Hoima Municipality in Hoima District in mid-western Uganda. The study was conducted by a team lead by Dr. Christine Nalwadda and Ms. Lydia Kabwijamu from the CHBS department. The findings were disseminated physically in Hoima Municipality and online using zoom electronic media. The Hoima district authorities commended Makerere University for the timely and cutting-edge research.



Ms. Lydia Kabwijamu, a Co-Principal Investigator of the study speaking at the dissemination of study results in Hoima Municipality in November 2020.

5.4 Getting workplaces Covid-19 Ready: A Training at City Medicals Kampala

On 30th January 2020, the World Health Organisation (WHO) declared the COVID-19 outbreak a Public Health Emergency of International Concern (PHEIC). Subsequently, Uganda declared the COVID-19 outbreak a national emergency. As part of the efforts to contribute to the pandemic preparedness and response, a MakSPH team led by Dr.

Steven Ssendagire and Dr. Doreen Tuhebwe in collaboration with Ministry of Health prepared a training package on getting workplaces ready to deal with COVID-19 (see figures below). This was in recognition of the fact that workplaces were potential places for amplification of COVID-19; could serve as an early warning system for COVID-19 detection and if not planned for eventualities in advance COVID-19 could disrupt business. The training package was first

delivered to personnel of City Medicals Limited and City Ambulances Uganda on 24th March 2020. The training facilitated employers and employees to appreciate how COVID-19 would likely affect their business. It facilitated them to identify actionable recommendations to protect employees, customers and business against the potential negative impact of COVID-19 into a contingency plan. As part of the training package pull-up banners with messages on COVID-19 were designed and distributed to employers to enable continued learning. In the training package, at least each organisation was

expected to: develop a COVID-19 preparedness and response plan; prepare to implement basic infection prevention measures; develop policies and procedures for prompt identification and referral of sick people; develop, implement and communicate about workplace flexibilities and protections; implement workplace controls and follow guidelines instituted by government. This training package is available online and accessible to any organisations across Uganda and beyond via URL: <https://youtube/LjT9bdPvhEc>. The full story is accessible from: <https://bit.ly/3aQZOYL>.



Dr. Tuhebwe leading participants through a discussion



The participants watching an educative video used as one of the learning methods.

5.3 Graduate Alumni and Students supporting Uganda in COVID-19 response

In partnership with Uganda Ministry of Health, AFENET and CDC, Makerere University School of Public Health (MakSPH) deployed 32 graduate alumni and students to support Ministry of Health during the COVID-19 response. The alumni were from the Master of Public Health Program, Master of health Service Research, and Master of Public Health Disaster Management. The alumni and students were involved in case management of COVID-19 patients in Mulago National Referral Hospital, contact tracing, following up people under quarantine, conducting epidemiological investigations, data management among other activities as part of the efforts to control the pandemic. The alumni were coordinated through

the Dean's Office and the MakSPH MPH Alumni Association to provide their time and expertise on a voluntary basis as service to their country. The alumni and students were supported with transport in the field by AFENET and CDC. Makerere School of Public Health (MakSPH) also provided supplies including sanitizers, masks and gloves to the alumni and students in order to contribute to their safety. The alumni and students started their deployments on 15th March 2020 when they supported the preparedness efforts like screening at the airport and follow up of high risk travelers. Since the confirmation of the first COVID-19 case, the MakSPH deployed alumni and students have been activated as part of the National Rapid Response Team (NRRT) and work directly under the Ministry of Health (MOH).



Ms. Petranilla Nakamya (standing) an MPH Alumni conducting contact tracing while maintaining the 2 meter social distance and avoiding sitting or touching any objects around.



Ms. Brenda Nakazibwe (standing) an MPH Alumni who is part of institutional quarantine sensitizing police officers at Tulipatu apartments where they were on guard following the escape of 36 Chinese nationals from quarantine.



Mr. Abdulaziz Tugume (standing) an MPH alumni leading a surveillance team interviewing a Chinese national during a post follow-up briefing at Petit Saigon Beach Hotel.



Team members of institutional quarantine updating the Chinese Ambassador and his team on the state of affairs concerning the safety of the 36 Chinese nationals after evacuating them from their hiding when they escaped from quarantine. The operation began at 2:30 pm on 21.03.2020 and ended at 5:00 am on 22.03.2020



Ms. Rita Tamale (standing) an MPH alumni educating staff at Grand Global Hotel a quarantine site about infection control measures to be observed while attending to suspected cases.



Mr. Ian Amany standing with googles an MHSR student offering support to the Surveillance and Laboratory Team while picking a COVID-19 sample from a Contact at one of the institutional quarantine sites.

5.4 Bulamu-Low-Cost Medical Ventilator a co-creation in response to COVID19

The RAN offered technical support supervision through the process of manufacturing the Bulamu Low-Cost Medical Ventilator. These efforts were in partnership with Makerere University, Kiira Motors Corporation and Ministry of Science Technology and Innovation. The goal was to develop a low-cost medical ventilator to address the respiratory needs of critical patients during the COVID-19 Pandemic and beyond. The Low-Cost Ventilator was manufactured using locally

available materials that were eco-friendly, fast and easy to use (see figure below). The Bulamu Medical Ventilator utilizes a standby battery as a sustainable alternative source of energy. It is imperative to note that over 84% of electricity generation in Uganda is from hydropower, a sustainable energy source. Since the ventilator is solar powered, it can be used in the lower health centers (District hospitals and Health Centres IV) thus reducing on the referral delay processes to regional hospitals in Uganda.



Unveiling the Low-Cost Medical Ventilator to Hon. Dr. Jane Ruth Aceng Ocerro, Uganda's Minister of Health on June 11, 2020 (Photo-Makerere University Research and Innovation Fund).

5.5 EpiTent-the Tent that Breathes a co-creation in response to COVID19

The EpiTent developed by Makerere University is a next generation tent to provide treatment and Isolation units for Covid-19. It is a portable habitation solution for humanitarian emergencies and a Humane Emergency Use Canopies and Accessories. The EpiTent is a re-imagined tent for emergency service delivery, designed for hot humid climates. It has two versions: (i) an ordinary version known as the "Low-End Version" that provides space for a typical hospital ward, and (ii) an optimally accessorized version known as 'the Portable Hospital' or the High-End Version).

These structures were made from cheap material that are locally available and could be produced by both high-end manufacturers and low-end artisans.

The EpiTent was the result of a call for proposals to improve the lives of caregivers during the West African Ebola outbreak of 2014. One major setback to current tents in use in Africa today is the heat. EpiTent solved this problem by passively lowering the temperature by over ten degrees Celsius more than any other product on the market today. EpiTent cut down on the humidity by over ninety-five percent

which greatly contributed to the temperature reduction. Additionally, the general design of the tent allowed people inside greater interaction with the external environment while keeping out negative aspects like bad weather and airborne pests such as mosquitoes. The design was tested and was found to protect the health care workers and patients from contamination and transmission of diseases while in admission. It is accessorized to allow for hospital use thus no need to procure accessories like drip stands, worktops, etc. For ease of rapid deployment and set up, the tent measures 6 x 12 meters and enlargement of the design to accommodate more patients was being looked at.

The RAN embarked on massive production of the next generation tents to respond to this pandemic in partnership with Luwero Industries Limited, a company under Uganda Peoples Defence Force's National Enterprise Corporation (NEC). Seventeen tents are currently in use in 5 Ugandan National Referral Hospitals and service provision centres. These include regional hospitals in the districts of Adjumani (one of the hottest parts of Uganda), Mbarara, Gulu, Mbale and Masaka. The other tents are being used at the Malaba Port-Health Department, Bombo Military Hospital, Entebbe Airport Military Base and Nebbi District Military Base.



EpiTent in Use in Adjumani District, Uganda

5.6 COVID19 pandemic Preparedness Course

In September 2020, Makerere University in collaboration with the East African Community (EAC) Secretariat signed a collaborative agreement to implement the Pandemic Preparedness Course, a short course aimed at contributing to the One Health Work force and Institutionalizing One Health in the East African region. The Pilot course will be conducted next

year by the College of Veterinary Medicine, Animal Resources, and Biosecurity (CoVAB) in partnership with Makerere University School of Public Health (MakSPH) with funding from the Federal Republic of Germany and implemented by Gesellschaft für Internationale Zusammenarbeit (GIZ) in close collaboration with the EAC Secretariat.

5.7 Innovations under the Department of Orthopedics

The innovations under the Department of Orthopedics included: (i). Together with the private sector, the orthopedic department came up with an electric wheel chair operated by a small knob to help the disabled people. (ii). The department came up with a battery driven cart that can carry 500kg of equipment and can run for 72 hours before recharging. (iii). The department got some specialties in spine surgery, arthroplasty, and arthroscopy for managing joint diseases with technology of joint replacement and invasive arthroscopy work and Spine laser surgery for spine disk problems. (iv) In trauma, conducted skills training in the skills lab using instruments and bone saw materials donated by USTOP.

5.8 Community Outreach

The School of Biomedical Sciences (SBS) through the Department of Immunology and Molecular biology provided COVID-19 testing to the University community and other entities. The University community was tested for free. Other services offered to the community included: Embalming and body storage for all staff of Makerere University and their deceased immediate relatives; Preparation of teaching specimens for other sister medical schools; and support supervision and teaching of Anatomy related disciplines in sister medical schools.

5.1.3. Evidence based Advocacy Head Lines Annual Set-SRHR Programme Conference

From 18th November to 19th November 2020, Makerere University School of Public Health organized a two-day Research Conference on Sexual and Reproductive Health and Rights (SRHR) in Africa. The conference was organized in partnership with project's key implementing partners: Rutgers, Netherlands and Nsamizi Training Institute for Social Development at Imperial Botanical Beach Hotel, Entebbe. This conference that was both physical and virtual attracted participants from all over the world including South Africa, Eastern Europe, West Africa, Ethiopia and Latin America Netherlands, Kenya, Nigeria and Rwanda. During the conference, health stakeholders called for evidence-based advocacy as a ploy for addressing sexual reproductive and reproductive health challenges across the continent. The conference provided a great platform for African researchers, trainers, policy makers and practitioners to disseminate and exchange innovations, ideas and outcomes of their SRHR endeavors. The conference was officially opened by Hon. Dr. Joyce Moriku Kaducu, the Minister for Primary Health Care and graced by Ruth Van Zorge who represented the Dutch Ambassador, Mr. Mondo Kyateeka, the Assistant Commissioner, Children and Youth (MGLSD) at the Ministry of Gender, Labour and Social Development and Dean School of Public

Health. At Makerere University, Dr. Elizabeth Nabiwemba leads SET-SRHR Programme.



Hon. Dr. Joyce Moriku Kaducu, the Minister for Primary Health Care together with participants for the SRHR International Conference at Imperial Botanical Beach Hotel in Entebbe

5.1.4 International and Local Conferences

Due to the COVID-19 pandemic, physical meetings were stopped. However, members adopted the online conferencing facilities and participated in several scientific meetings. Some of the conferences participated in were: (i). The 16th H3Africa Consortium virtual meeting held 8 September 2020. (ii). The World Congress of Bioethics Virtual Conference, Philadelphia, USA held from 19-21 June 2020. (iii). The 3-day virtual African Primary Health Conference attended by Dr. I. Besigye from 9th to 11th September 2020. The Conference was organized by the AfroPHC Network in collaboration with WONCA Africa and WHO Africa region.

5.1.5 Collaborations and Partnerships

Collaborations

The collaborations in the department of surgery include COSECSA exams and support for trainees, mathematical modelling for breast cancer with Minnesota University. Various specialist units have collaborations that include: pediatric surgery with Kids OR, Yale University, University of British Columbia and University of California San Francisco; Urology with Yale University and Endocrine surgery with Yale University.

The collaborations from SBS included that with Member of the Africa Ethics Working Group (AEWG), an international and interdisciplinary network of people interested in the ethics of mental health research, including experts in neuro-ethics, psychiatry, psychology, mental health, bioethics, philosophy, social science and public health.

The collaborations from the Department of Family Medicine included: (i). Hillman Medical Education Fund through Rose Charities International a Canadian-based funds training of postgraduate students in Family Medicine. (ii). Global Family

Medicine Foundation a Canadian-based Non Government Organisation (NGO) also provided tuition and research funding for postgraduate training. (iii). Global Health Through Education and Training (GHETS). (iv). Besrour Centre for Global Health. (v). African Primary Care Research Network through Stellenbosch University, South Africa. (vi). African Centre for excellence in Family Medicine through the University of Cape Town, South Africa. (vii). Memorial University of Newfoundland, Canada. (viii). University of Minnesota, USA., and (ix). The George Institute in Australia.

The International office partnered with several institutions abroad to organize collaborative online sessions that was to boost the Global Health learning environment of students and staff. With guidance and support of the Directorate of legal services, Principal, and International Partners, the International office reviewed and ensured renewal of several memoranda of understanding. The documents were signed as a sign of commitment to continuity of the partnerships.

5.9 Donation of 90 Lifebuoys to Uganda Police Marine Unit

In October 2020, Makerere University School of Public Health (MakSPH) donated 90 lifebuoys to the Uganda Police Force (UPF) Marine Unit, to aid the specialized unit in rescuing the drowning victims. This was done with support from the Bloomberg Philanthropies. The school also pledged to support the police marine unit with a refresher short course focusing on the 'training of trainers' on search and rescue, with at least one trainer from each of the Marine Police detachments in Uganda. With this intervention, it was hoped that the Marine Police roles would be enhanced and many lives saved on the Ugandan water bodies.



Assistant Inspector General of Police (AIGP) Mr. Edward Ochom, the UPF Director in charge of Operations together with Engineer James Apora, the Uganda Police Marine Unit commandant receive 90 lifebuoys from MakSPH team represented by Mr. Abdullah Ali Halage and Dr. Olive Kobusingye, a Research Fellow and the Principal Investigator of TRIAD project at the Marine Base in Kigo, Wakiso District

The Department of Orthopedics together with the Orthopedics Society Uganda carried out annual outreach services in Fort Portal and Lira. Faculty members from the Department of Dentistry served in different capacities with the community. Dr. Mbabali Muhammed served on the Board of Directors of the National Drug Authority (NDA) as a representative UMDPC and Dr. Kutesa Annet served on the Board of Directors of the Uganda Allied Health Examinations Board (UAHEB).

The Grants and Contracts Office created awareness on its activities to the departments of Family medicine and Medicine and Anatomy. It encouraged the faculty to engage in research grant activities. The Grants and Contracts Office supported Makerere University Lung Institute (MLI) Capacity Building Sessions for Research Fellows. The sessions were organised by the MLI department of Training and Education and involved a series of online trainings on grant writing, with emphasis on: Interpreting Funding Opportunity announcements, writing a winning

grant, Budgeting and Interpreting awards. It was hoped that by the end of these sessions, each Research fellow would be able to start applying for grants. The grants and contracts office supported and actively participated in the review of written policies and contracts that guided the institution operations including grants agreements.

5.10 National Contribution to COVID19 Pandemic

The MAKCHS through its School of Biomedical Sciences team got government approval to conduct testing for Coronavirus. A testimony to the great capacity built at the SBS Molecular and Immunology science laboratory. This contribution enabled the country even better fight the COVID19 pandemic. Furthermore, through a collaboration of SBS and the Makerere University Health Services, testing services for COVID19 were offered to the Makerere University community and the general public. amongst the populace were conducted

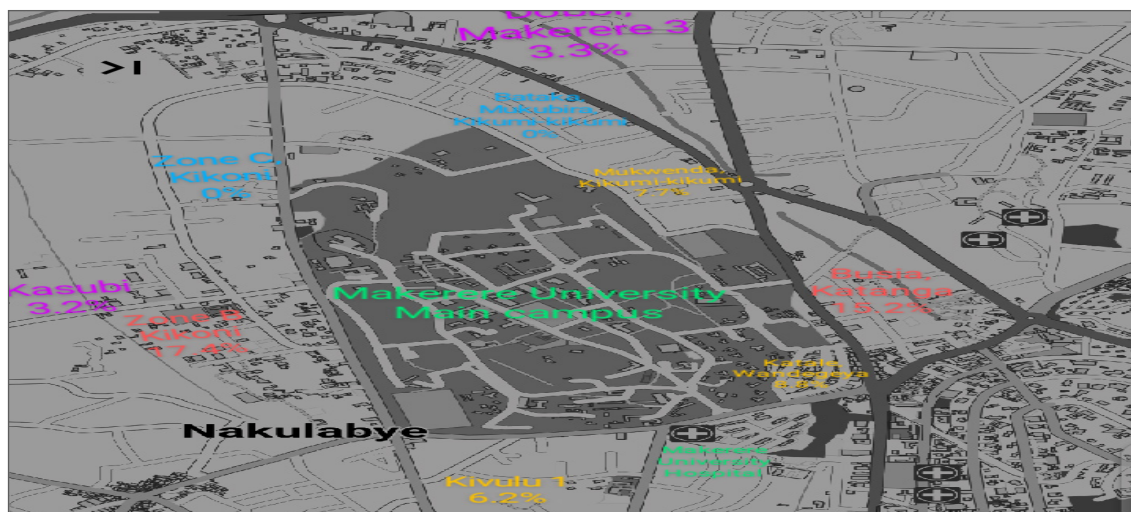
5.11 Makerere University Health Services (MakHS) tested COVID19 in surrounding communities

The MakHS in collaboration with the School of Biomedical Sciences supported the Ministry of Health by provision of COVID-19 testing services for the Makerere University community and the general public. It availed COVID-19 testing services free of charge to staff members of Jinja campus, as well as their neighboring communities, under the same RIF project.

Also, using a Mak-RIF grant, Mak Health Services tested the surrounding communities of Makerere University for COVID-19 using an economising mass testing strategy called Pooled screening. This enabled MakHS test people in the communities free of charge. The relative prevalence of COVID-19 in these communities was established, Zone B of Kikoni had the highest prevalence of 17.4 percent followed by Katanga with 15.2 percent. Wandegeya had 8.8 percent while Kikumi-kikumi had 7.7 percent. See Table 1 and Fig 1.

Table 1- Showing the prevalence of COVID-19 in the surrounding communities of Makerere University

| L.C.1 Area | Code Assigned to L.C.1 Area | Number of Participants Enrolled and Tested | Number of Participants who Tested Positive | Positivity Rate (%) |
|--|-----------------------------|--|--|---------------------|
| Kivulu 1-Kagugube | A | 65 | 4 | 6.2 |
| Zone B-Kikoni | B | 92 | 16 | 17.4 |
| Katale zone-Wandegeya | C | 80 | 7 | 8.8 |
| Mukwenda zone- Kikumikikumi | D | 130 | 10 | 7.7 |
| Busia zone-Katanga | E | 79 | 12 | 15.2 |
| Zone C-Kikoni | F | 43 | 0 | 0 |
| Bataka and Mukubira zones – Kikumikikumi | G | 79 | 0 | 0 |
| Kasubi | J | 125 | 4 | 3.2 |
| Nakulabye market | K | 84 | 0 | 0 |
| Dobbi zone-Makerere 3 | L | 54 | 2 | 3.7 |
| Jinja campus, Makerere | M | 105 | 3 | 2.9 |
| Makerere University hospital | H | 91 | 11 | 12.1 |



Map showing the prevalence of COVID-19 in the surrounding communities of Makerere



6

Training & Conferences

The launch of the College Strategic Plan 2020-2030



6.0. Teaching and Learning

6.1 The launch of the College Strategic Plan 2020-2030

The MAKCHS Strategic Plan 2020-2030 was launched at a Strategic Planning Retreat held on Wednesday 4th June 2020 at Imperial Royale Hotel, Kampala. The retreat was attended physically and shared online through the zoom electronic media. It was attended by college Deans, Heads of Departments, Administrators and other key stakeholders. The objectives of the retreat were:

- Sensitize the staff about the strategic plan and key priority activities.
- Agree on new innovations such as using of online platforms in teaching and learning at the College of Health Sciences.

- To get the views and common position of the University Management, College administrators, deans of schools, heads of departments, key staff and students representation to the College of Health Sciences Strategic Plan 2020-2030.



Opening remarks by Prof. Charles Ibingira at the strategic planning retreat



Principal Damalie Nakanjako and Assoc. Prof. Kajja and other Heads of Department at MAKCHS Retreat

- Create awareness of key activities that the College is expected to implement under the Strategic Plan 2020-2030.
- Contribute towards the development of new monitoring and evaluation tools that are to be used to track teaching and learning in the College over the next five to ten years.



Assoc. Prof. David Meya presenting at the MAKCHS strategic planning Retreat



Dr. Haruna Muwonge facilitating at the Retreat

From the retreat, the participants were able to identify key critical areas for implementation in the next financial year 2020-2021. The quality assurance unit was at the fore-front of organising meetings for the Strategic Planning Implementation Committee chaired by Assoc. Prof. David Meya. It also organized the Strategic Planning retreat.

6.2 New Initiatives in Surgery

The School of Medicine through its Department of Surgery established a number of new initiatives. These were: (i) Establishment of a Surgical Registry in collaboration with Minnesota University; (ii) Establishment of a bio-bank in collaboration with University of California San Francisco; (iii) Consulted and revised the Graduate Assessment and Training forms for Surgical trainees to account for all competencies expected from a surgeon; (iv) Piloted through a grant the use of Google Glasses for real time trainee teaching and supervision. The Google Glass enabled the management of large trainee numbers under the existing limited infrastructure; (v) Surgical advances under which

Surgeons in a team with other health workers, performed the first successful separation of conjoint twins' in Uganda by an 'all Ugandan team'. The team was composed of 5 lecturers and about 10 anesthesia and surgery residents; led by makerere university faculty from department of Aneasthesa & surgery.

6.3 New Initiatives in Biomedical Sciences

The School of Biomedical Sciences won three presidential grants: (i). For commercial manufacturing of Oligonucleotides, peptides and enzymes as part of a KIT for COVID-19 testing. (ii). For setting up COVID-19 Biobank to support biotechnology in therapeutics, diagnostics and vaccinology. (iii). For determination of Pharmacokinetics of COVID-19 Drugs. The Ag. Principal presided over the Biorepository Advisory Board meeting that committed to seeking for more space for the Biorepository and dedicate some funds for the Bio banking sustainability fund. The SBS promoted the activities of the University Health Services through provision of specialized diagnostics.

Administrative Units at the College of Health Sciences



Lusiba George
(College Bursar)



Modecai Tayebwa
(Senior Grants Manager)



Godwin Okiror
(Human Resource Officer)



Irene Rebecca Namatende
(Quality Assurance Manager)



Shivon Atwine
(Procurement Manager)



Bob Shine
(Head IT)



Mary Gyezaho
Admin. Secretary-Principals Office



Peruth Ainembabazi
Admin. Assistant Principals Office



Appendices

- Research Grants
- Partnerships and Memorandum of Understandings
- Publications



APPENDIX 1: RESEARCH GRANTS

From August to November 2020, the MakSPH submitted a total of 22 grant applications. It received a total of 12 grant awards bringing the total number of Grants in the School to 104. Some of the grants are in the table below:

| Project | Funder | Project Period |
|---|--|----------------|
| The American Schools and Hospitals Abroad Grant to support construction of the new MakSPH building | USAID | 2 years |
| Pilot of a Network-driven, advocacy intervention to promote cervical cancer screening in Uganda. | National Institutes of Health | 2 years |
| Integration of buprenorphine into a multi-component harm reduction program for people who inject drugs in Kampala, Uganda | National Institutes of Health | 3 years |
| Impact Evaluation for Evidence Based policy decisions in Uganda | Hewlett Foundation | 2 years |
| Bloomberg Global Road safety initiative 2020-2021 | Johns Hopkins University | 2 months |
| Mid-term evaluation of health system strengthening project | Korea Foundation for International Health Care | 4 months |
| Support Gates Foundation funded Tobacco Control Project Activities in Uganda | World Health Organization | 1 month |
| Photo voice to explore community members perspectives regarding health and healthcare challenges in Mukono District, Uganda | University of Liverpool | 8 months |
| Rapid Assessment of Knowledge, Attitude and Practices regarding COVID-19 among Health Workers in Uganda | World Health Organization | 3 months |

The MakSPH recently concluded the third cycle for the Small Grants Programme. A total of six junior researchers were to be supported to conduct research in selected areas of areas of public health including Urban health, Non-Communicable Diseases and Nutrition.

The first phase of construction of the School of Public Health Building commenced. The School was awarded \$1.1 million from USAID

through the ASHA funding which would help in the completion of the first phase. Fundraising was ongoing to ensure completion of the entire building.

The School of Public Health staff SACCO held its Annual General Meeting on 30th October 2020. The SACCO currently has 114 members and total Assets amounting to over 1.6 billion shillings.

| No | Name of staff and role | Title | Funder | Amount | Remarks |
|----|------------------------|---|-----------------|-----------------|-------------------------|
| 1. | Dr. Annet Kuteesa | Transforming presumptive age estimation in Uganda: methods, certainty and the law | Mak-Rif | 70m Shs | Project closed |
| 2. | Dr. Catherine Mwesigwa | The dental workforce in Uganda-A situational analysis | Mak-Rif | 50m Shs | On-going |
| 3. | Dr. Francis Ochieng | Medicinal plants | Mak-Rif | 70m Shs | On-going |
| 4. | Dr. Annet Kuteesa | Anxiety, knowledge and perceived vulnerability towards Covid-19 pandemic among Oral Health workers and its effect on oral health provision in Uganda | Mak-Rif COVID19 | 50m Shs | On-going |
| 5. | Dr. Barbara Ndagire | Knowledge, perspectives and extent of use of caries risk assessment in the management of dental caries among Ugandan practitioners | HEPI | 4000USD | On-going |
| 6. | Dr. Allan Kalyesubula | Prevalence of dental caries and its determinants among children and adolescents attending diabetic clinic in Mulago. | HEPI | 4000USD | On-going |
| 7 | Prof. Moses Galukande | Enhancing Uptake of VMMC Among The 15-29 Pivot Age Group (enu Page). Ref: Mak/DVCFA/113/20 | Mak-RIF | 204,166,760 UGX | July 2020 – June 2021 |
| 8 | Prof. Moses Galukande | Microbial Contamination of Masks and other Face Coverings Evaluation Study during the Covid-19 Pandemic in Kampala (Ma FACE study). Ref: Mak/DVCFA/151/20 | Mak-RIF | 55,616,000UGX | May 2020 – October 2020 |
| 9 | Prof. Moses Galukande | African Breast Cancer Research Network-Disparities in outcomes (ABC-DO Plus). Ref: Grant ID: 1R01CA244559-01A1 | NIH | 205,000 USD | 2020 - 2025 |
| 10 | Dr. Kilyewala Cathy | Optimizing Surgical Training; Live video recording to remotely relay surgical procedures to large groups of trainees using smart glasses and storage of standardized live video operative manuals Ref: | Mak-RIF | 71,600,000 UGX | 2020-2021 |

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|----|------------------------|--|---------|-----------------|-----------|
| 11 | Dr. Kilyewala Cathy | The effect of live recording, relaying and archiving of surgical procedures to large groups of trainees using smart glasses in LMIC. A randomized trial. | HEPI | 4000USD | 2020-2021 |
| 12 | Dr. Alenyo Rose | The use of Autologous Umbilical Cord Blood stem cell for Reconstruction of Alveolar cleft. | Mak-RIF | 38,800,000 UGX | 2020-2021 |
| 13 | Dr. Mbiine Ronald | Center for stem cell and Regenerative Medicine. | Mak-RIF | 78,000,000 UGX | 2020-2021 |
| 14 | Dr. Mbiine Ronald | Early warning system for in-hospital transmission of COVID19 in Mulago Hospital | Mak-RIF | 60,000,000 UGX | 2020-2021 |
| 15 | Dr. Mbiine Ronald | HEPI Faculty Development Award | HEPI | 4000 USD | |
| 16 | Dr. Kituuka Olivia | Building Capacity for Organ and Marrow Donation program | Mak-RIF | 149,000,000 UGX | 2020-2021 |
| 17 | Prof. Charles Ibingira | Determination and characterisation of viral load and antibody profiles in samples from multiple sites of COVID-19 patients in Uganda. | Mak-RIF | | |
| 18 | Dr. Buwembo William | Anti-COVID19 immunoglobulins G and M in blood specimens collected before lockdown at two urban clinics of Kampala, Uganda. | Mak-RIF | | |
| 19 | Dr. Kiryowa Haruna | Effect of Periodontal treatment on glycemic control in diabetic patients aged 18 years and above attending Kiruddu referral hospital, Uganda. | Mak-RIF | | |
| 20 | Dr. Buwembo William | Mechanisms underlying dental caries and periodontal disease in HIV infected patients attending the Mulago ISS clinic in Uganda. | Mak-RIF | | |
| 21 | Dr. Alison Kinengyere | Evidence syntheses on masks, COVID testing and health worker safety during COVID19 pandemic. | Mak-RIF | 59,994,080 UGX | |
| 22 | Dr. Alison Kinengyere | Library support to HIV research | NIH | 0 UGX | |

| Grants Submitted | | | |
|------------------|--|---|---------------|
| No. | Grant Title | Principal Investigators | Amount |
| 1 | Makerere University Data Science Research Training to Strengthen Evidence-Based Health Innovation, Intervention and Policy (MakDARTA) | Kateete, David Patrick Joloba, Moses Lutaakome | USD 1,874,440 |
| 2 | Neurocognitive Function among HIV Infected Infants with Severe Pneumonia Receiving Empirical Treatment for Cytomegalovirus and Tuberculosis | Dr. Damalie Nalwanga | € 150,000.00 |
| 4 | Early life determinants of lung function and risk of non-communicable lung diseases in Uganda | Dr. Rebecca Nantanda | £ 689,836 |
| 5 | Strengthening Interdisciplinary Research in Technology Translational Pathways for Improved Maternal and Child Health in Uganda | Dr. Robert Sekitoleko | £ 25,000 |
| 6 | How are different low-middle income countries implementing primary health care team integration to support delivery of comprehensive primary health care | Dr. Besigye Innocent | USD 30,000 |
| 7 | Strengthening Translational Science in Uganda through Ethical Data Governance | Dr. John Barugahare | \$1,279,339 |
| 8 | The Natural History of SARS-Covid-19 Infection In Uganda | Dr. Noah Kiwanuka | \$1,486,956 |
| 9 | Sustainable Smart Hand Washing: Harnessing Point-Of-Use Data and Public Health Hand Washing in Low Resource Settings to Prevent COVID-19 Transmission. | Dr. Robert Sekitoleko | £ 707,852.09 |
| 10 | A parenting intervention to prevent and respond to Violence Against Children in the context of COVID19 in slums of Kampala City | Dr. Godfrey Siu | £ 785,352 |
| 11 | Strengthening COVID-19 Infection prevention and control for Ugandan frontline health workers | Prof. Sarah Kiguli | £935,534 |
| 12 | MRC grant Application | Prof. Josephine Kasolo | \$ 497,724 |
| 13 | The Physiological Effects and Experiences of the Use of Face Masks to Prevent the Spread of COVID-19 among Men and Women in Uganda. | Dr. Joseph Ochieng | \$ 98,543 |
| 14 | Sustaining HIV research capacity with enhanced library and information services | Alison Annet Kinengyere | \$ 304,279.18 |
| 15 | Facilitating Behavior Change to Reduce Household Air Pollution using the Internet of Things and Mobile Air Pollution Feedback' | Assoc. Prof. Engineer Bainomugisha, Dr. Bruce and Dr. Katamba | \$ 475,364 |
| 16 | Development and Evaluation of a Sickle Cell Disease Screening Information Management and Communication System | Prof. Nelson Sewankambo & Dr. Joseph Lubega | \$1,041,033 |
| 17 | Using new genomic approaches to investigate causes of maternal sepsis among women delivering in sub-Saharan Africa | Assoc. Prof. Annette Nakimuli | \$ 171,920 |

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|----|---|--|-----------------|
| 18 | Strengthening Global Infectious Disease Research Administrative Capacity for the Office of Research and Development at Makerere University and Affiliated Institutions (SGRAC) | Tayebwa Mordecai | \$108,000 |
| 20 | Evaluation of the Impact of malaria control interventions on poverty and livelihood of households in rural communities of northern Uganda | Dr. Moses Ocan | \$ 420,882 |
| 21 | Pesticide use among women farmer groups in rural communities of Uganda: improving product quality and market access | Dr. Bunalema Lydia | \$422,880 |
| 22 | Physical cellular biomarkers to advance diagnosis and therapy of cancers most relevant in Africa | Dr. Robert Sekitoleko & Prof. Thomas Franz | \$ 5,998,213 |
| 23 | Building Capacity in Low- and Middle-Income Country Institutions with active HIV/AIDS research and training programs to Develop Awareness, Training, Procedure, and Policy for Responding to Allegations of Sexual Harassment | Prof. Damalie Nakanjako | \$ 75,000 |
| 24 | Capacity Building and Strengthening infrastructure to implement the Policy, Guidelines and Regulations against Sexual Harassment and Abuse at Makerere University and HEPI partners institutions | Prof. Sarah Kiguli | \$ 74,992 |
| 25 | Prevention of Hepatitis B among Neonates in Sub-Saharan Africa Acronym: Phebanssa | Dr. Emmanuel Seremba | € 149,987 |
| 26 | THRIVE_3 | Prof. Nelson Sewankambo | \$ 6,000,000.00 |
| 27 | Strengthening Institutional Capacity to Conduct Global Cancer Research in Low- and Middle-Income Countries for the formation of "A Pediatric Oncology Research Training Program (PORT) in Sub Saharan Africa | Prof. Nelson Sewankambo | \$ 649,864 |
| 28 | 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 | \$342,453.00 |
| 29 | Unlocking Medical Imaging Data to Improve Healthcare Coverage and Lower the Burden of Disease in Sub-Saharan Africa. | Joyce Nabende | \$ 5,857,889 |

| Grants awarded to MakCHS including Subcontracts | | | |
|---|--|-------------------------------|--------------|
| No. | Grant Title | PI | 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 | USD 30,000 |
| 3 | Characterising 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 | Dr. Annette 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 | € 149,950.00 |
| 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. Annette Olivia Nakimuli | \$ 99,999 |
| 13 | Congo Red Test - Reducing Preeclampsia Morbidity and Mortality through Clinical Protocols Incorporating the Urine based Test | Dr. Sam Ononge | \$ 45,126 |
| 14 | Capacity building reliable diagnostic & epidemiological tools to confront the spectre of a COVID-19 epidemic in refugee community in northern Uganda | Dr. Savannah Mwesigwa | \$ 6,434 |
| 15 | University Administration Support Program (UASP) Research Management and Leadership fellowship program | Mr. Mordecai Tayebwa | \$ 0 |

APPENDIX 2: PARTNERSHIPS AND MEMORANDA OF UNDERSTANDING

List of Memoranda of understanding reviewed and signed during the period

| No. | Name of institution | Area of collaboration |
|-----|------------------------------------|---|
| 1 | Des Moines University, U.S.A | Bilateral Student exchange programme. Online lecture series. |
| 2 | Minnesota University, U.S.A | Bilateral student/staff exchange Collaborative research in malaria Capacity enhancement for junior faculty at MakCHS. |
| 3 | Kazan State University, Russian | Student placements at MakCHS for students from Kazan. |
| 4 | Western Connecticut Health Network | Capacity enhancement for junior faculty at MakCHS. Bilateral staff exchange programme Placement for students at MakCHS. |
| 5 | Karolinska Institutet | Student exchange Collaborative Research |

| No. | PARTNER INSTITUTION | DATE SIGNED | EXPIRY DATE | PURPOSE OF MOU/ AGREEMENT |
|-----|--|--------------|-----------------|---|
| 1 | MINISTRY OF HEALTH | 13/02/2015 | | THE INDIGENOUS AND COMPLEMENTARY MEDICINE |
| 2 | THE UNIVESITY COURT OF THE UNIVERSITY OF ST ANDREWS | 01/05/2018 | AFTER 36 MONTHS | RESEARCH COLLABORATION |
| 3 | BENADIR UNIVERSITY | 19/1/2018 | | MEMORANDUM OF UNDERSTANDING |
| 4 | UNIVERSITY OF MINNESOTA | 01/06/2018 | 31st/05/2023 | ADDENDUM AGREEMENT |
| 5 | THE NATIONAL DRUG AUTHORITY | 30th/08/2018 | AFTER 2 YEARS | MEMORANDUM OF UNDERSTANDING |
| 6 | EUROPEAN AND DEVELOPMING COUNTRIES CLINICAL TRIALS PARTNERSHIP | 03rd/10/2018 | | DECLARATION OF HONOR |
| 7 | THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | 19th/07/2018 | | MEMORANDUM OF UNDERSTANDING |
| 8 | OKLAHOMA STATE UNIVERSITY CENTER FOR HEALTH SCIENCES | 01st/08/2018 | 31st/07/2019 | MEMORANDUM OF UNDERSTANDING |
| 9 | THE UNIVERSITY OF RWANDA | 30th/04/2018 | | MEMORANDUM OF UNDERSTANDING |
| 10 | JOHN HOPKINS UNIVERSITY | 23rd/05/2018 | | MEMORANDUM OF UNDERSTANDING |

| | | | | |
|----|---|---------------|-----------------|---|
| 11 | RUTGERS, THE STATE UNIVERSITY OF THE NEW JERSEY | 12th/07/2018 | | STATEMENT OF INTENT TO ESTABLISH AN AGREEMENT |
| 12 | UNIVERSITY OF CAPE TOWN | 10th/ 09/2018 | | SUB CONTRACTING |
| 13 | MINISTRY OF DEFENCE AND VETERAN AFFAIRS | 07th/09/2018 | | INVITATION TO THE SIGNING OF MEMORANDUM |
| 14 | KISMAYO UNIVERSTY | 08th/08/2018 | | MEMORANDUM OF UNDERSTANDING |
| 15 | NORTH WESTERN UNIVERSITY | 02rd/06/2018 | | MEMORANDUM OF UNDERSTANDING |
| 16 | UNIVERSITEIT ANTWERPEN | 08th/08/2018 | | MEMORANDUM OF UNDERSTANDING |
| 17 | NATIONAL DRUG AUTHORITY | 01st/08/2018 | | MEMORANDUM OF UNDERSTANDING |
| 18 | UGANDA CANCER INSTITUTE | 22nd/08/2018 | | HIV REARCH TRAINING PROGRAM IN HIV- ASSOCIATED MALIGNANCIES |
| 19 | DUKE UNIVERSITY | 20th/08/2018 | | MOBILE HEALTH PROGRAM TO SYNERGISE PEDIATRIC SURGICAL CANCER |
| 20 | GRAND CHALLENGES CANADA | 31st/03/2018 | 30th/09/2019 | PROOF OF CONCEPT GRANT AGREEMENT |
| 21 | FOUNDATION FOR PROFESSIONAL DEVELOPMENT | 21st/03/2018 | | AFRICAN ASSOCIATION OF HEALTH PROFESSIONS EDUCATION AND RESEARCH |
| 22 | THE JOHN HOPKINS UNIVERSITY | 21st/06/2016 | | COLLABORATION AGREEMENT ON RESEARCH AND EDUCATION |
| 23 | UNIVERSITY OF WASHINGTON(USA) | 19th/03/2018 | | COLLABORATIVE DELIVERY OF THE PROFESSIONAL DIPLOMA IN TROPICAL MEDICINE AND HYGIENE |
| 24 | OKLAHOMA STATE UNIVERSITY CENTER FOR HEALTH SCIENCES, TULSA, OKLAHOMA | 25th/06/2018 | | MEMORANDUM OF AGREEMENT |
| 25 | SOROT UNIVERSITY | 27th/07/2018 | | MEMORANDUM OF UNDERSTANDING |
| 26 | MINISTRY OF HEALTH AND SANITATION, SIERRA LEONE | 19th/06/2018 | AFTER 36 MONTHS | TRAINING ONE DOCTOR IN OBSTERICS AND GYNAECOLOGY |
| 27 | GLAXOSMITHKLINE RESEARCH AND DEVELOPMENT LIMITED | 16th/06/2018 | | RESEARCH COLLABORATION AGREEMENT |
| 28 | THE UNIVERSITY OF MANCHESTER | 20th/06/18 | AFTER 5 YEARS | MEMORANDUM OF UNDERSTANDING |

| | | | | |
|----|---|--------------|-----------------|--|
| 29 | STATE UNIVERSITY OF NEW YORK | 18th/06/2018 | AFTER 5 YEARS | MEMORANDUM OF AGREEMENT ON COLLABORATION AND RESEARCH |
| 30 | PUBLIC HEALTH NURSES' COLLEGE | 30th/10/2017 | | SIGNING OF THE MEMORANDUM OF UNDERSTANDING |
| 31 | OTHER INSTITUTE ABROAD | 03rd/08/2018 | | SIGNED MEMORANDUM OF UNDERSTANDING |
| 32 | COLLEGE OF HEALTH SCIENCES | 06th/09/2016 | | INTERNSHIP PROGRAM |
| 33 | FUTURE UNIVERSITY HAKODATE-JAPAN | | | ACADEMIC EXCHANGES AND COOPERATION |
| 34 | MINISTRY OF HEALTH, MULAGO NATIONAL REFERRAL HOSPITAL | 29th/01/2016 | | MEMORANDUM OF UNDERSTANDING |
| 35 | AFRICAN CENTERS FOR LIGHTENING AND ELECTROMAGNETICS NETWORK | | | MEMORANDUM OF UNDERSTANDING |
| 36 | ERASMUS + PROGRAMME OF THE EUROPEAN UNION | | | PARTNERSHIP AGREEMENT |
| 37 | BUTABIKA HOSPITAL | 01st/11/2018 | AFTER 12 MONTHS | GLOBAL HEALTH RESEARCH GROUP ON DEVELOPING PSYCHO-SOCIAL INTERVENTIONS |
| 38 | LAST MILE HEALTH AND COMMUNITY HEALTH ACADEMY | 19th/04/2019 | | MEMORANDUM OF UNDERSTANDING |
| 39 | UGANDA HEART INSTITUTE | 05th/03/2019 | | DEVELOPMENT OF TRAINING CURRICULUM FOR VARIOUS LEVELS OF HEALTH CADRES |
| 40 | EUROPEAN AND DEVELOPING COUNTRIES CLINICAL TRIALS PARTNERSHIP | 11th/12/2018 | | DECLARATION OF HONOUR |
| 41 | JOHN HOPKINS UNIVERSITY | 19th/09/2018 | 31ST/08/2023 | HEALTH PROFESSIONS EDUCATION AND TRAINING FOR STRENGTHENING THE HEALTH SYSTEM AND SERVICES IN UGANDA |
| 42 | UGANDA HEART INSTITUTE | 27th/02/2019 | | POST DOCTORAL AND FELLOWSHIP TRAINING. SUPERVISION OF GRADUATE STUDENTS AND SUBSPECIALTY FELLOWS |

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|----|---|--------------|---------------|---|
| 43 | YALE UNIVERSITY | 03rd/01/2019 | | TO IMPROVE HEALTH CARE BY DEVELOPING INNOVATIVE APPROACHES TO EDUCATION. TO GAIN A UNIQUE EXPERIENCE IN HEALTH PROFESSIONAL EDUCATION AND CLINICAL CARE FININCIAL AND OPERATIONAL MATTERS |
| 44 | EMORY VACCINE CENTER EMORY UNIVERSITY | 07th/01/2019 | | INTENT TO ESTABLISH AN AGREEMENT |
| 45 | THE UNIVERSITY OF LEEDS AND UGANDA INDUSTRIAL RESEARCH INSTITUTE | 01st/11/2018 | 31st/07/2019 | COLLABORATION |
| 46 | BUSITEMA UNIVERSITY | 19th/09/2018 | 30th/08/2023 | HEALTH PROFESSIONS EDUCATION AND TRAINING FOR STRENGTHENING THE HEALH SYSTEM AND SERIVES IN UGANDA |
| 47 | WESTERN CONECTICUT HEALTH NETWORK,INC | 31st/10/2018 | AFTER 5 YEARS | TO ENGAGE IN EDUCATIONAL EXCHANGES OF STUDENTS. PROVIDE TRAINING OPPORTUNITIES AND CONDUCT JOINT RESEARCH IN PRIORITY PUBLIC HEALTH AREAS |
| 48 | THE GOVERNORS OF THE UNIVERSITY OF ALBERTA | 07th/06/2018 | | INSTITUTEAL REVIEWS AND APPROVAL |
| 49 | INTERNATIONAL PHARMACEUTICAL STUDENTS FEDERATION | 15th/10/2018 | | REQUEST TO PARTNER WITH AND SUPPORT THE 8TH AFRICAN PHARMACEUTICAL SYMPOSIUM. |
| 50 | JOHN HOPKINS UNIVERSITY | 13th/09/2018 | | TO EXPLORE OPPORTUNITIES FOR FACULTY EXCHANGES AND VISITATIONS TO EXPLORE OPPORTUNITIES FOR THE JOINT ORGANISATION OF SCIENTIFIC AND CULTURAL EVENTS COORDINATED BY THE PARTIES. |
| 51 | TEXAS CHILDREN'S HOSPITAL AND BAYLOR COLLEGE OF MEDICE CHILDREN'S FOUNDATION UGANDA | 27th/08/2015 | | UGANDA NATIONAL PAEDIATRIC HAEMATOLOGY- ONCOLOGY PROGRAMME |

| | | | | |
|----|--|--------------|---------|---|
| 52 | COLLEGE OF HEALTH SCIENCES , UNIVERSITIES OF MARTIN LUTHER HALLE AND BAYREUTH IN GERMANY | 06/2019 | 05/2022 | LETTER OF COLLABORATION "TRUST IN MEDICINE AND THE SOCIAL EPIDEMIOLOGY OF DISTRUST, SOURCES OF THE FORMATION OF ZOONOTIC DISEASE SITUATIONS." |
| 53 | JOHN HOPKINS UNIVERSITY | 1st/10 /018 | | MATERIAL TRANSFER AGREEMENT |
| 54 | COLLEGE OF VETERINARY MEDICINE | 19th/06/2018 | | TEACHING OF VETERINARY PHARMACY COURSES AT THE DEPARTMENT OF PHARMACY |
| 55 | JOHN HOPKINS UNIVERSITY, USA, KILIMANJARO CHRISTIAN MEDICAL UNIVERSITY COLLEGE TANZANIA, LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE, UK. UNIVERITY OF WASHINGTON, USA. | | | COLLABORATIVE DELIVERY OF THE PROFESSIONAL DIPLOMA IN TROPICAL MEDICINE AND HYGIENE |
| 56 | THE NATIONAL INSTITUTE FOR MEDICAL RESEARCH(TANZANIA), MINISTRY OF HEALTH COMMUNITY DEVELOPMENT, GENDER, ELDERLY AND CHILDREN. UNIVERSITY COLLEGE LONDON, INSTITUTE OF ENDEMIC DISEASES- UNIVERSITY OF KHARTOUM, SUDAN. ADDIS ABABA UNIVERSITY, ETHIOPIA. THE GOOD SAMARITAN FOUNDATION (KILIMANJARO CHRISTIAN MEDICAL CENTER) INFECTIOUS DISEASES INSTITUTE KENYA MEDICAL RESEARCH INSTITUTE (KENYA) UNIVERSITY OF BERGEN, NORWAY LIVERPOOL SCHOOL OF TROPICAL MEDICINE | 20th/12/2017 | | CONSORTIUM AGREEMENT |
| 57 | KUMAMOTO UNIVERSITY GRADUATE SCHOOL OF PHARMACEUTICAL SCIENCES | 22rd/02/2018 | | COLLABORATION |

| | | | | |
|----|---|--------------|------------------------|--|
| 58 | UGANDA CANCER INSTITUTE | 20th/10/2017 | | MEMORANDUM OF UNDERSTANDING |
| 59 | KAMPALA CAPITAL CITY AUTHORITY(KCCA) | 11th/04/2018 | | MEMORANDUM OF UNDERSTANDING |
| 60 | MAKE PEOPLE STRONGER LTD (MPS) | 19th/03/2018 | AFTER 15 YEARS | TO IMPROVE HUMAN HEALTH CARE AND ECONOMIC DEVELOPMENT OF THE POPULATION OF UGANDA BY PROVIDING QUALITY MORTUARY SERVICES |
| 61 | THE MINISTRY OF HEALTH MULAGO NATIONAL REFERRAL HOSPITAL | 29th/01/2016 | EVERY AFTER 2 YEARS | COLLABORATION |
| 62 | SCHOOL OF MEDICINE AT INDIAN UNIVERSITY | 1st/09/2017 | | RESEARCH COLLABORATION |
| 63 | THE JOHNS HOPKINS UNIVERSITY | 21st/06/2016 | EFFECTIVE FOR 10 YEARS | RESEARCH, TRAINING AND EDUCATIONAL PROJECTS IN THE SPECIFIC AREAS AGREED UPON |
| 64 | THE UNIVERSITY COURT OF THE UNIVERSITY OF GLASGOW, THE INFECTIOUS DISEASES INSTITUTE, MINISTRY OF HEALTH, AND UNIVERSITY OF RWANDA | 01st/02/2018 | AFTER 36 MONTHS | EPSRC-GCRF FUND |
| 65 | MINISTRY OF HEALTH, MULAGO HOSPITAL AND MBARARA HOSPITAL PHYSICIANS, BUTABIKA HOSPITAL PSYCHIATRISTS, DUKE UNIVERSITY (DIVISION OF GLOBAL NEUROSURGERY AND NEUROLOGY) | 27th/10/2017 | | COLLABORATIVE STUDY EXAMINING EPILEPSY PREVALENCE IN UGANDA |
| 66 | QUEEN MARY UNIVERSITY OF LONDON, UK | 01st/06/2017 | 31st/03/2021 | COLLABORATION |
| 67 | DEPARTMENT OF BIOMEDICAL ENGINEERING, DUKE UNIVERSITY USA | 30th/05/2017 | | STRENGTHENING SCHOLARSHIP TEACHING AND RESEARCH |
| 68 | CENTER FOR PRIVATE HEALTH AND SOCIAL ADJUSTMENT | 01st/02/2018 | AFTER 2 YEARS | REDUCING HIV RISK, INCREASING ACCESS TO TREATMENT AND PROMOTING RESILIENCE AMONG WAR AFFECTED POPULATIONS IN NORTHERN UGANDA |
| 69 | STANBIC BANK UGANDA LTD, ASSISI TECHNICAL SERVICES | 05th/01/2018 | AFTER 2 YEARS | TO RENOVATE THE ALBERT COOK LIBRARY |

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| 70 | SAN JOSE MEDICAL CLINIC NAIROBI KENYA | 10th/10/2017 | | TO REGISTER THE DRUG ,TO DO IN-VITRO STUDIES TO FURTHER ESTABLISH SAFETY AND EFFICACY AND ESTABLISH THE DOSE AND TYPE OF CANCER TREATABLE BY THE DRUG |
| 71 | UNIVERSITY OF CAMBRIDGE | 01st/02/2018 | 01st/04/2019 | UNDERSTANDING THE ROLE OF TRADITIONAL HEALTH PRACTITIONERS IN THE CONTROL AND CARE OF BREAST AND CERVICAL CANCER |
| 72 | THE TRUSTEES OF COLUMBIA UNIVERSITY | 31st/10/2017 | FOR 2 YEARS | MATERIAL TRANSFER |
| 73 | TEESSIDE UNIVERSITY OF MIDDLESBROUGH | 06th/10/2017 | AFTER 2 YEARS | MEMORANDUM OF UNDERSTANDING |
| 74 | MINISTRY OF DEFENCE AND VETERAN AFFAIRS | 11th/09/2017 | | TO IMPLEMENT A CAPACITY BUILDING PROGRAM TO STRENGTHEN THE UPDF CAPACITY TO UNDERTAKE HEALTH RESEARCH AND IMPROVE THE QUALITY OF HEALTH CARE SERVICE DELIVERY FOR THE UPDF COMMUNITY AND THE GENERAL POPULATION |
| 75 | THE REGENTS OF THE UNIVERSITY OF CALIFORNIA | 14th/06/2017 | AFTER 5 YEARS | AMENDMENT |
| 76 | MOUNT KENYA UNIVERSITY COLLEGE OF HEALTH SCIENCES | 19th/09/2017 | | COLLABORATE IN THE IMPROVEMENT OF HIGHER EDUCATION IN THE REGION THROUGH DEVELOPMENT OF EXCHANGE PROGRAMS FOR BOTH STUDENTS AND FACULTY |
| 77 | ABIM DISTRICT | 11th/10/2017 | | TO ESTABLISH FORMAL COLLABORATION BETWEEN THE UNIVERSITY AND THE COMMUNITY TRAINING SITES TO EFFECTIVELY AND EFFICIENTLY PRODUCE HEALTHWORKERS WHO ARE COMMUNITYLEADERS AND DEVELOPMENT AGENTS, SERVICE PROVIDERS, EDUCATORS AND COMMUNITY RESEARCHERS. |

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| 78 | UGANDA CANER INSTITUTE | 19th/10/2017 | 5 YEARS | INSTITUTIONAL COLLABORATION AND CAPACITY DEVELOPMENT |
| 79 | KAMPALA CAPITAL CITY AUTHORITY | 26th/10/2017 | | MEMORANDUM OF UNDERSTANDING |
| 80 | HUTCHINSON CENTER RESEARCH INSTITUTE OF UGANDA (HCRI) AND DR CHARLES IBINGIRA | 01st/04/2017 | 31st/03/2018 | CONTRACTOR SERVICE |
| 81 | UNSW AUSTRALIA | 01ST/11/2016 | | DEEP APPRECIATION |
| 82 | SOROTI UNIVERSITY | 04th /10/2017 | | ACCEPTANCE OF COLLABORATION |
| 83 | PROF HENERY WABINGA | 03th/04/2017 | | EMPLOYMENT SERVICE AGREEMENT |
| 84 | MEDICAL AND MOLECULAR LABORATORIES LIMITED (MMLO) | 15th /12/2015 | | TO FORMALISE A RELATIONSHIP BETWEEN MAKERERE UNIVERSITY AND MEDICAL AND MOLECULAR LABORATORIES LTD |
| 85 | THE UNIVERSITY OF CAPE TOWN | 07th /11/2016 | 06TH/03/2020 | IMPROVING TIMELY DIAGNOSIS OF SYMPTOMATIC BREAST CANCER IN SUB-SAHARAN AFRICA |
| 86 | UGANDA PEOPLES' DEFENCE FORCES | 11th/10/2016 | | TO PROMOTE AND ACCELERATE THE PROGRESS OF BIOMEDICAL, BIOSECURITY, BIODEFENCE, CLINICAL AND PUBLIC HEALTH RESEARCH |
| 87 | CHINA UGANDA FRIENDSHIP HOSPITAL NAGURU KAMPALA | 25th/08/2016 | | TO STREAMLINE THE TRAINING OF HEALTH PROFESSIONAL IN RESEARCH, PATIENT CARE AND ANY OTHER JOINT UNDERTAKINGS |
| 88 | WITS HEALTH CONSORTIUM (PTY)LTD | 09th/09/2016 | | HUMAN HEREDITY AND HEALTH IN AFRICA |
| 89 | UNIVERSITY OF ZURICH, FACULTY MEDICINE | 04th/03/2016 | | ADDENDUM TO THE MEMORANDUM OF UNDERSTANDING |
| 90 | BOSTON UNIVERSITY SCHOOL OF MEDICINE | 14th/06/2016 | | EXCHANGE OF MEDICAL RESIDENTS AND POST-GRADUATES AND TRAINING OF UGANDANS IN BASIC TRANSLATIONAL RESEARCH ON TUBERCULOSIS AND OTHER DISEASES |
| 91 | TORORO DISTRICT | 08th/06/2016 | | TO PRODUCE EFFECTIVE AND EFFICIENT FAMILY PLANNING PHYSICIANS |

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| 92 | THE BOARD OF TRUSTEES OF LELAND STANFORD UNIVERSITY | 18th/06/2016 | | BIOLOGICAL MATERIAL TRANSFER |
| 93 | UPPSALA UNIVERSITY UPPSALA SWEDEN | 28th/04/2016/ | | DOUBLE RESEARCH TRAINING TOWARDS DEGREE OF DOCTOR OF PHILOSOPHY |
| 94 | KAROLINSKA INSTITUTET | 11th/02/2015 | | JOINT DOCTORAL TRAINING TOWARDS DEGREE OF DOCTOR OF PHILOSOPHY(PHD) |
| 95 | KAROLINSKA INSTITUTET | | | EDUCATIONAL COOPERATION |

APPENDIX 3. PUBLICATIONS

1. Ullrich SJ, **Kakembo N**, Grabski DF, Cheung M, **Kisa P**, Nabukenya M, Tumukunde J, Fitzgerald TN, Langer M, Situma M, Sekabira J. Burden and Outcomes of Neonatal Surgery in Uganda: Results of a Five-Year Prospective Study. *Journal of Surgical Research*. 2020 Feb 1; 246:93-9.
2. **Kisa P**. 2 chapters (Hypospadias, Prune Belly Syndrome). *Paediatric Surgery: a comprehensive text for Africa*. 2nd Ed. 2020
3. **Galukande M**, Schus J, Anderson OB, Zetsman A, Adisa C, Anele A, et al. Maternal Orphaned Children and Intergenerational concerns associated with Breast Cancer deaths among women in sub Saharan Africa. *JAMA Oncol*. Dec 2020 <https://doi.org/10.1001/jamaoncol.2020.6583>
4. Renzaho MN A, Doh D, Mahumud AR, **Galukande M**, Kamara JK. The impact of the livelihoods and income fortification and socio-civic transformation project on the quality of life, wellbeing, self-esteem, and quality of neighbourhood social environment among the youth in slum areas of in Kampala, Uganda. *BMC Public Health*. Dec 2020 20:1872 <https://doi.org/10.1186/s12889-020-09868-y>
5. Togawa K, Anderson BO, Foerster M, **Galukande M**, Zietsman A, Pontac J, et al. Geospatial barriers to healthcare access for breast cancer diagnosis in sub-Saharan African settings: The African Breast Cancer—Disparities in Outcomes Cohort Study. *Int. J. Cancer*. November 2020;1–15 <https://doi.org/10.1002/ijc.33400>
6. McCormack V, McKenzie F, Foerster M, Zietsman A, **Galukande M**, Adisa C, Anele A, et al. Breast cancer survival and survival gap apportionment in sub-Saharan Africa (ABC-DO): a prospective cohort study. *The Lancet Global Health*. September 2020; Vol 8(8): e1203-e1212. [https://doi.org/10.1016/S2214-109X\(20\)30261-8](https://doi.org/10.1016/S2214-109X(20)30261-8)
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8. Scheel RJ, Giglou JM, Segel S, Orem J, Tsu V, **Galukande M**, Okello J, Nakigudde G, Mugisha N, Muyinda Z, Anderson OB, Duggan CC. Breast Cancer Early Detection and Diagnostic Capacity in Uganda. *Cancer*. 2020; 2469-2480 DOI: 10.1002/cncr.32890
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10. **Galukande M**, Were FL, Kigozi J, Kahendeke C, Muganzi, A, Kambugu A Closing the Gap Toward Zero Tetanus Infection for Voluntary Medical Male Circumcision: Seven Case Reports and a Review of the Literature. *Surgical Infections*. 2020; Vol 21 (10) DOI: 10.1089/sur.2020.103
11. Ademuyiwa-Adesoji O, Bekele A, Berhea AB, Borgstein E, Capo-Chichi N, Derbew M, Evans F, Feyssa MD, **Galukande M**, Gawande, Atul A, et al. COVID-19 preparedness within the surgical, obstetric and anesthetic ecosystem in sub-Saharan Africa. *Annals of Surgery*. July 2020 - Volume 272 - Issue 1 - e9-e13 doi: 10.1097/SLA.0000000000003964

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29. Namuli Justine Diana, Psychiatry\ "Complementary Alternative Medicine (CAM) Use and Associated Factors among HIV Infected Children and Adolescents Seeking Mental Health Services in Uganda".
30. Abbo Catherine Adito, Psychiatry; A Narrative Analysis of the Link between Modern Medicine and Traditional Medicine in Africa: A Case of Mental Health in Uganda.
31. Lutoti Stephen, Pharmacy; A review of breast cancer treatment modalities in Uganda: An appraisal of the breast cancer diagnostic process, regulatory approval and supply system of standardized anti-breast cancer medicines
32. Katamba Achilles, Internal Medicine; Accuracy of different Xpert MTB/Rif implementation strategies in programmatic settings at the regional referral hospitals in Uganda: Evidence for country wide roll out.
33. Ononge Sam, Obstetrics and Gynaecology; Achieving community-based postpartum follow up in eastern Uganda: the field experience from the MamaMiso Study on antenatal distribution of misoprostol.
34. Ononge Sam, Obstetrics and Gynaecology; Adherence to iron supplements among women receiving antenatal care at Mulago National Referral Hospital, Uganda-cross-sectional study.
35. Kamya Moses Robert, Internal Medicine; Altered angiogenesis as a common mechanism underlying preterm birth, small for gestational age, and stillbirth in women living with HIV.
36. Kamya Moses Robert, Internal Medicine; Anemia and Micronutrient Status during Pregnancy, and Their Associations with Obstetric and Infant Outcomes among HIV-Infected Ugandan Women Receiving Antiretroviral Therapy.
37. Kajumbula Henry Mawerere, Microbiology; Antimicrobial Resistance of *Neisseria Gonorrhoeae* in a Newly Implemented Surveillance Program in Uganda: Surveillance Report.

38. Kayima James, Internal Medicine; Association of genetic variation with blood pressure traits
39. Katamba Achilles, Internal Medicine; Association of genetic variation with blood pressure traits among East Africans.
40. Kamya Moses Robert, Internal Medicine; Association of Implementation of a Universal Testing and Treatment Intervention With HIV Diagnosis, Receipt of Antiretroviral Therapy, and Viral Suppression in East Africa.
41. Kiondo Paul, Obstetrics and Gynaecology Asymptomatic bacteriuria among pregnant women attending antenatal care at Mbale hospital, Eastern Uganda.
42. Kamya Moses Robert, Internal Medicine; Avidity of anti-malarial antibodies inversely related to transmission intensity at three sites in Uganda.
43. Arthur Mpimbaza Mwambari, Child Health Development; Blood transfusion in sub-Saharan Africa: walking a tightrope.
44. Kiondo Paul, Obstetrics and Gynaecology; Cervical vaginal bacteriological and antibiotic sensitivity patterns among women with premature rupture of membranes in Mulago hospital, Kampala. Uganda: A cross sectional study.
45. Kamya Moses Robert, Internal Medicine; Changing Antimalarial Drug Resistance Patterns Identified by Surveillance at Three Sites in Uganda.
46. Kirenga Bruce James, Internal Medicine; Characteristics and outcomes of admitted patients infected with SARS-CoV-2 in Uganda. *BMJ Open Respiratory Research*. 2020 Sep 1;7(1):e000646.
47. Kamya Moses Robert, Internal Medicine; Closing the NIH Fogarty Center threatens US and global health.
48. Kamya Moses Robert, Internal Medicine; Comparative Prevalence of *Plasmodium falciparum* Resistance-Associated Genetic Polymorphisms in Parasites Infecting Humans and Mosquitoes in Uganda.
49. Wacoo Paul Alex, Biochemistry; Comprehensive transcriptome of the maize stalk borer, *Busseola fusca*, from
50. Nabukenya Mary Theresa, Anaesthesia; Con: Pure service delivery is no longer needed in global surgical missions.
51. Mugisha Charles Rwenyonyi, Dentistry; Dental Caries Pattern and Treatment Needs among Ugandan Adolescent Students: A Cross-Sectional Study
52. Otit-Sengeri Juliet, Ophthalmology; Elevated inflammatory cytokines in aqueous cytokine profile in HIV-1 infected patients with cataracts in Uganda.
53. Bunalema Lydia Wasswa, Pharmacology and Therapeutics; Ethnobotany, ethnopharmacology and phytochemistry of traditional medicinal plants used in the management of symptoms of tuberculosis in East Africa: a systematic review.
54. Kamya Moses Robert, Internal Medicine; Evaluating the feasibility and uptake of a community-led HIV testing and multi-disease health campaign in rural Uganda.
55. Sembajwe Lawrence Fred, Physiology; Exostosin family of proteins: mRNA expression profiles and heparin sulfate structure in human breast carcinoma cell lines.
56. Namutundu Juliana, Epidemiology and Biostatistics; Factors affecting mortality among HIV positive patients two years after completing recommended therapy for Cryptococcal meningitis in Uganda. *PLoS ONE* 14 (1): e0210287.

57. Lutoti Stephen, Pharmacy: Formulation and Standardization of Herbal Medicinal Products: A Review of the Formulation Considerations, Quality Control and Safety of Herbal Products
58. Kamya Moses Robert, Internal Medicine; Gaps in the Child Tuberculosis Care Cascade in 32 Rural Communities in Uganda and Kenya.
59. Mayanja-Kizza Harriet, Internal Medicine; Genetic variability and consequence of Mycobacterium tuberculosis lineage 3 in Kampala-Uganda.
60. Sembajwe Lawrence Fred, Physiology; Haematological profile of healthy adult blood donors in Mwanza, Tanzania.
61. Magala John Paul, Surgery; Hand Colonization with Gram-Negative organisms of Healthcare Workers accessing it
62. Kinyanda Eugene, Psychiatry; Health care professionals' perspectives on physical activity within the Ugandan mental health care system.
63. Kamya Moses Robert, Internal Medicine; HIV Testing and Treatment with the Use of a Community Health Approach in Rural Africa.
64. Kamya Moses Robert, Internal Medicine Hypertension testing and treatment in Uganda and Kenya through the SEARCH study: An implementation fidelity and outcome evaluation.
65. Katamba Achilles, Internal Medicine; Identifying barriers to and facilitators of tuberculosis contact investigation in Kampala, Uganda: a behavioral approach.
66. Ononge Sam, Obstetrics and Gynaecology; Identifying women giving birth preterm and care at the time of birth: a prospective audit of births at six hospitals in India, Kenya, Pakistan and Uganda.
67. Kamya Moses Robert, Internal Medicine; Impact of Intermittent Preventive Treatment During Pregnancy on Plasmodium falciparum Drug Resistance-Mediating Polymorphisms in Uganda.
68. Kamya Moses Robert, Internal Medicine; Impact of Microscopic and Submicroscopic Parasitemia During Pregnancy on Placental Malaria in a High-Transmission Setting in Uganda.
69. Otiti-Sengeri Juliet, Ophthalmology; Impairment of vision among commercial motorcyclists (Bodaboda riders) in Uganda.
70. Sewankambo Nelson Kaulukusi, Internal; Medicine Influence of community-based education on undergraduate health professions students' decision to work in underserved areas in Uganda.
71. Bukenya Justine Nnakate, Community health and Behavioural Sciences Instituting Sustainable Geriatric Care in Africa: The Roles of Socio cultural Constructs.
72. Kamya Moses Robert, Internal Medicine; Intermittent Preventive Treatment for Malaria in Pregnancy: Optimization of Target Concentrations of Dihydroartemisinin-Piperaquine.
73. Kayima James, Internal Medicine; Kidney disease in Uganda: a community based study
74. Bukenya Justine Nnakate, Community health and Behavioural Sciences; Knowledge and correlates of use of safer conception methods among HIV-infected women attending HIV care in Uganda.
75. Katamba Achilles, Internal Medicine; Linking communities to formal health care providers through village health teams in rural Uganda: lessons from linking social capital.

76. Kinyanda Eugene, Psychiatry; Long-Term Impact of War, Civil War, and Persecution in Civilian Populations-Conflict and Post-Traumatic Stress in African Communities.
77. Musisi Seggane Moses, Psychiatry: Long-Term Impact of War, Civil War, and Persecution in Civilian Populations—Conflict and Post-Traumatic Stress in African Communities
78. Ononge Sam, Obstetrics and Gynaecology Measurement error of mean sac diameter and crown-rump length among pregnant women at Mulago hospital, Uganda.
79. Sewankambo Nelson Kaulukusi, Internal Medicine National framework for the sustainability of health knowledge translation initiatives in Uganda.
80. Mubuuke Aloysius Gonzaga, Radiology and Radio Therapy Perceptions of radiography students towards problem-based learning almost two decades following its introduction at Makerere University, Uganda.
81. Kamya Moses Robert, Internal Medicine: Performance of Loop-Mediated Isothermal Amplification for the Identification of Submicroscopic *Plasmodium falciparum* Infection in Uganda.
82. Nabukeera Nicolette Barungi, Paediatrics and Child Health: Performance of MUAC and associated factors in the prediction of acute malnutrition among children 6-59 months at Mulago Hospital, Kampala
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84. AGABA Peter KAAHWA, Anaesthesia: Perioperative patient outcomes in the African Surgical Outcomes Study: a 7-day prospective observational cohort study.
85. Kamya Moses Robert, Internal Medicine: *Plasmodium* Species Infecting Children Presenting with Malaria in Uganda.
86. Kamya Moses Robert, Internal Medicine: Point-of-care C-reactive protein-based tuberculosis screening for people living with HIV: a diagnostic accuracy study.
87. Bunalema Lydia Wasswa, Pharmacology and Therapeutics Potential of *Zanthoxylum leprieurii* as a source of active compounds against drug resistant *Mycobacterium tuberculosis*.
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91. Sewankambo Nelson Kaulukusi Internal Medicine Prevalence and correlates of men's and women's alcohol use in agrarian, trading and fishing communities in Rakai, Uganda. PLoS One
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94. Kajumbula Henry Mawerere, Microbiology; Primary pathogens and antimicrobial drug resistance in blood culture isolates at a tertiary hospital, Kampala, Uganda.
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 96. Abbo Catherine Adito, Psychiatry Psychosomatic Medicine in Africa. In Psychosomatic Medicine
 97. Abbo Catherine Adito, Psychiatry; Qualitative evaluation of the outcomes of care and treatment for children and adolescents with nodding syndrome and other epilepsies in Uganda.
 98. Kamya Moses Robert, Internal Medicine Redemption of the "spoiled identity:" the role of HIV-positive individuals in HIV care cascade interventions.
 99. NAKABEMBE EVE, Obstetrics and Gynaecology: Relative impact of pre-eclampsia on birth weight in a low resource setting: a prospective cohort study.
 100. Kamya Moses Robert, Internal Medicine; Resurgence of Malaria Following Discontinuation of Indoor Residual Spraying of Insecticide in an Area of Uganda With Previously High-Transmission Intensity.
 101. Kamya Moses Robert, Internal Medicine: Rheumatic heart disease in Uganda: predictors of morbidity and mortality one year after presentation.
 102. Kamya Moses Robert, Internal Medicine Rheumatic Heart Disease Treatment Cascade in Uganda.
 103. Namatovu Jane Frances, Family Medicine Roles and challenges of family physicians in Uganda: A qualitative study
 104. Kamya Moses Robert, Internal Medicine; Sex Disparity in Cord Blood FoxP3+ CD4 T Regulatory Cells in Infants Exposed to Malaria In Utero.
 105. Kayima James, Internal Medicine Single-trait and multi-trait genome-wide association analyses identify novel loci
 106. Bukenya Justine Nnakate, Community health and Behavioural Sciences; Strengthening our knowledge base and research capacity for improved adolescent health in sub-Saharan Africa: a South-South-North collaboration.
 107. Kinyanda Eugene, Psychiatry; Substance use among HIV-infected adolescents in Uganda: rates and association with potential risks and outcome factors. 2020 Jan 31:1-11.
 108. Babikako Harriet Mupere, Child Health Development; The Burden and Community Knowledge of TB, HIV, and Malnutrition in Kawempe North, 2017
 109. Kamya Moses Robert, Internal Medicine; The Development of Plasmodium falciparum-Specific IL10 CD4 T Cells and Protection from Malaria in Children in an Area of High Malaria Transmission.
 110. Otit-Sengeri Juliet, Ophthalmology: The Global Bioethical Framework–The Barcelona Principles: An Agreement on the use of human donated tissue for ocular transplantation, research, and future technologies © 2018. Global Alliance of Eye Bank Associations. Melbourne.

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112. Kiwanuka Suzanne Namusoke, Health Policy Planning and Management: The private sector as the 'unusual suspect' in knowledge brokering for international sustainable development: a critical review.
113. Kamya Moses Robert, Internal Medicine; THE REAL McCOIL: A method for the concurrent estimation of the complexity of infection and SNP allele frequency for malaria parasites.
114. Muyinda Herbert, Child Health Development; The Skilling Journey: Disability, Technology, and Sociality in Post-conflict Northern Uganda
115. Kayima James, Internal Medicine; The spatial epidemiology of leprosy in Kenya: A retrospective study.
116. Kamya Moses Robert, Internal Medicine; Understanding uptake of an intervention to accelerate antiretroviral therapy initiation in Uganda via qualitative inquiry.
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