



ANNUAL REPORT 2022



MAKERERE
UNIVERSITY

College of Health
Sciences



MAKERERE
UNIVERSITY

COLLEGE OF HEALTH SCIENCES

ANNUAL REPORT 2022





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VISION

A leading and transformational institution for academic excellence and innovation in health sciences in Africa



MISSION

To Improve the health of the people of Uganda through innovative teaching, research and provision of services responsive to societal needs

CORE VALUES

**Innovativeness
and
Adaptability
to Change**



**Social
Accountability**



Diversity



**Excellence
and
Quality**



**Equity and
Social
Justice**



Professionalism



Message from the Principal



It is with great pleasure that I present to you the Makerere University College of Health Sciences (MakCHS) annual report for the year 2022. This report provides only a snapshot of activities at MakCHS, as we went about executing our mandates of teaching and learning, research, and service delivery throughout 2022.

The MakCHS continues to lead in its mission to provide transformational education and research to improve service delivery and wellbeing of the communities we serve through our five constituent schools; School of Medicine, School of Biomedical Sciences, School of Public Health, School of Health Sciences and School of Dentistry. I wish to congratulate our gallant staff upon completion of a very productive 2022, as we swiftly catch up with the teaching periods that were lost during the COVID-19 pandemic and maximize the learning we received from the pandemic period.

Our major challenge is the unending drive to keep learning and innovate solutions that are fit-for-purpose to serve our 21st century learners and clients, in an everchanging environment. We are spurred on by the demands of our customers including patients, students, staff and collaborators; as well as our commitment and social responsibility to provide transformative education to health professionals that will transform health care in Uganda, Africa and globally.

We continue to pioneer innovations to develop solutions to provide the most relevant solutions global health challenges within our context. This pioneering spirit is part of our DNA and we intend to uphold and even surpass our reputation; and most importantly pass on this culture to the next generation of health scientists who must be prepared to address, manage and prevent emerging and re-emerging global health challenges.

I extend my sincere gratitude to all our stakeholders including but not limited to all MakCHS staff, students, alumni, partners, funders, patients and health care providers for your unwavering commitment to serve humanity through your mission at MakCHS. Without you MakCHS would not be what it is. I pray that you all find MakCHS a productive garden for you sow and multiply yourselves into the lives of many.

On behalf MakCHS leadership we pledge our unwavering efforts to facilitate you to maximize your potential, achieve and outperform your goals for the year 2023.

A handwritten signature in black ink, likely belonging to Prof. Damalie Nakanjako.

Prof. Damalie Nakanjako
(Principal)

Message from Deputy Principal



Welcome remarks

A very warm welcome to you all our stakeholders to this issue of the Annual Report for the College of Health Sciences at Makerere University (MakCHS). I greet you in the name of the Almighty and I thank him for keeping you safe up to date. Special congratulations to everyone who has walked this journey of service with us.

Appreciation

The after-effects of COVID-19 and the war between Russia and Ukraine have affected the supply chain of many goods and services. These have affected many developing economies Uganda inclusive. This has challenged funding of many of our planned activities. Despite the reduced funding from Government, a lot has been achieved. Special appreciation goes to our students who have continuously understood the dynamics of their countries' economy and have accepted to learn within the available resources; and the academic, administrative and support staff for their mature approach to these challenging times. Your persistent support has highly contributed to the sustainability of programs intended to uplift academics, research, and community service which drive our mandate. Even with an Ebola outbreak, activities continued to be executed which shows how blessed the college is to have a dedicated

and resilient team amidst financial challenges. God bless you for this team spirit.

Achievements and Academics

Within its mandate, the College has recorded new collaborations in the different fields of training and research at the different levels. Through this the number of students and staff under the exchange program and academic mobility as hosted by the International Office has greatly improved. We successfully hosted the Annual JASH conference which was organized by the School of Medicine. The College has also hosted several other conferences, journal clubs, competitions, and launches to celebrate hard work, efforts and knowledge dissemination. These included the launch of the PhD Lounge, the Makerere University Environmental Health Students Association (MUEHSA) conference by the School of Public Health, the Federation of Uganda Medical Students Association (FUMSA) 17th General Assembly hosted by the Makerere University Medical Students Association (MUMSA), among others.

With support from the university top management, there has been an increment in the number of graduates at all levels including PhD, Masters, Undergraduates and fellowships. The credit goes to our faculty and all staff for

their collaborative supervision and academic responsibility towards the students and the community. Additionally, further training and post-retirement contracts have been awarded to eligible staff to continue mentoring other upcoming academics in their respective fields of expertise. Several senior and junior faculty have been awarded grants in many disciplines collaboratively with partners around the world.

This has increased service to the community, more knowledge sharing and publications from our staff. For this and more, we hope that the college continues to shine even brighter.

Thank you for the tremendous efforts towards Makerere University.

For God and My Country.

**Assoc. Prof. Isaac Kajja
(Deputy Principal)**

COLLEGE ACADEMIC LEADERS

MAKCHS Leadership



Prof. Damalie Nakanjako
(Principal)



Assoc. Prof. Isaac Kajja
(Deputy Principal)

Deans of Schools



Prof. Rhoda Wanyenze
(Dean School of Public Health)



**Assoc. Prof. Annetee
Olivia Nakimuli**
Dean School of Medicine



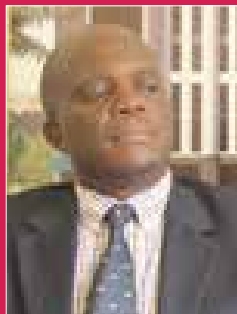
Prof. Moses L. Joloba
(Dean. School of Biomedical
Sciences)



Dr Kamba Pakoyo
Dean School of Health
Sciences



**Prof. Josephant
Byamugisha**
Director, Makerere University
Health Services



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



Dr. Kaddu Mukasa
(Deputy Dean School of
Medicine)



Dr. Annette Kutesa
(Dean School of Dentistry)

Heads of Departments



Prof. Moses Galukande
(Surgery)



Dr. Patrick Sekimpi
(Orthopedics)



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



Assoc. Prof. Esther Buregyeya
(Disease control and Environmental Health)



Prof. Byakika Pauline
(Department of Medicine)



Dr. Mukonzo Jackson
(Pharmacology)



Dr. Patrick David Katete
(Immunology & Molecular Biology)



Ass. Prof. Benon Asiimwe
(Microbiology)



Prof. William Buwembo
(Anatomy)



Dr. Hawa Nalwoga
(Pathology)



Dr. Robert Kalyesubula
(Physiology)



Dr. Dralega Anguyo
(Optametry)



Dr. Noah Kiwanuka
(Epidemiology & Biostatistics)



Dr. Ezekiel Mupere
(Paediatrics)



Dr. Arinaitwe Muwanguzi Patience
(Nursing)



Dr. Onyango Jude Tadeo
(Family Medicine)



Dr. Noeline Nakasujja
(Psychiatry)



Dr. Rita Nassanga
(Radiology)



Dr. Herbert Muyinda
(CHDC)



Dr. Alison Kinengera
(Head of Albert Cook Library)



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
(Ophthalmology)



Dr. Christine Nalwadda
Community Health & Behavioural Sciences



Mr. Lukiza Paul
Medical Illustration



Dr. B.D Otto
Pharmacy

COLLEGE ADMINISTRATIVE LEADERS



Silver Imadu
Admin. Secretary
Principals Office



Modecai Tayebwa
(Senior Grants Manager)



Irene Rebecca Namatende
(Quality Assurance Manager)



Zaam Ssali
Communication Officer



Micheal Baine
(College Bursar)



Josephine Nalweyiso
(Human Resource Officer)



Sarah Nakibuka
(Procurement Manager)



Bob Shine
(Head IT)



Susan N. Byekwaso
"Coordinator- International
office



Rachel Mirembe
Senior Admin
Principals Office



Abraham Matovu
Human Resource Office



Hildah Kwarisiima
(Procurement Assistant)



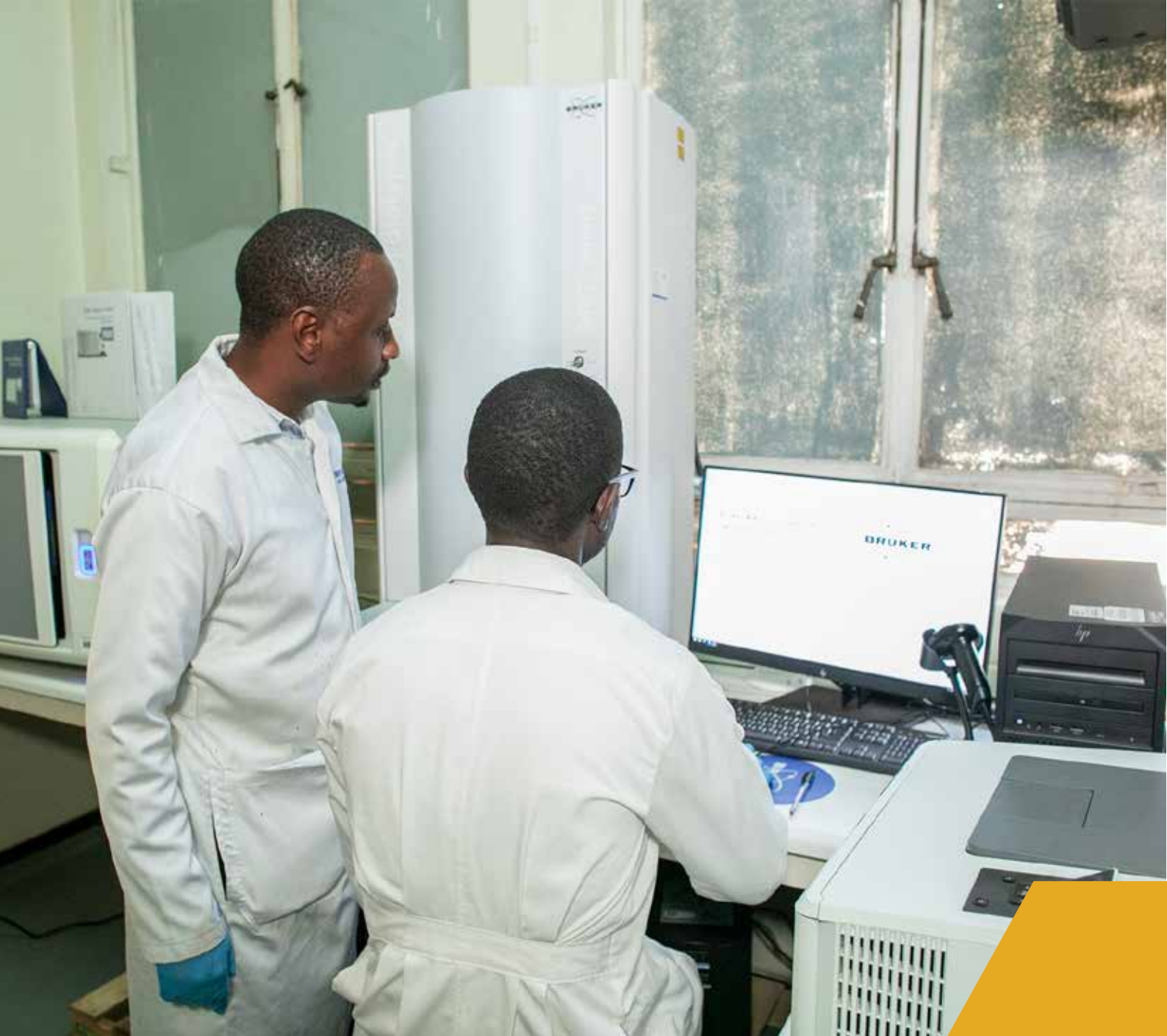
Norah Namirembe
Admin Assistant



Melisa Nkiyaga
Grants Officer



Bonny Tusiime
Grants Officer



TEACHING AND LEARNING

1



1. TEACHING AND LEARNING

Teaching and Learning Activities - Academic Year 2021/2022

Overall, Makerere University College of Health Sciences (MakCHS) had a total of 3,300 students enrolled, as of 30th June 2022 with a total of 13 undergraduate academic programs and 31 graduate academic programs. Up to 1,115/3,300 (34%) are graduate students. Details of students in each academic program are provided in Table 1 below

All examinations were as completed successfully, with the examinations done, marked and the results presented and considered departmental examiners' meetings, school academic Boards and subsequently the College Academic Board, for onward submission to the University Senate.

MakCHS continues to offer highly competitive academic programs and the number of graduate trainees is increasing steadily as shown in Table 1 below.

The number of graduate students is still limited by the clinical teaching infrastructure and over half of the graduate applicants are turned down because of limited intake capacity of the academic departments.

We anticipate that that the number graduate students will further rise to contribute to bridging the gap of limited specialists in Uganda, particularly when the University teaching hospital is realised to increase the clinical training infrastructure.

Table 1a: Undergraduate Students who graduated in the last three years

Nº	School	2021	2022	2023
1.	Medicine	232 (51%)	215(42%)	202(44%)
2.	Biomedical Science	75 (16%)	99(19%)	88(19%)
3.	Health Science	95(21%)	163(32%)	125(27%)
4.	Public Health	53 (12%)	40(7%)	45(10%)
Total		455	517	460

Table 1b: Graduate Students who graduated in the last three years

Nº	School	2021	2022	2023
1.	Medicine	148 (62%)	140(55%)	127(39%)
2.	Biomedical Sciences	25 (11%)	22(9%)	55(17%)
3.	Health Sciences	15 (6%)	13(5%)	20(6%)
4.	Public Health	50 (21%)	78(31%)	126(38%)
	Total	238	253	328
Percentage of graduate students		34%	32%	42%

Makerere University 72nd Graduation Ceremony May, 2022

At the 72nd Graduation Ceremony of Makerere University, the College of Health Sciences presented 12 PhD, 210 Masters, 572 Bachelors and 1 Ordinary Diploma for conferment of degrees and diploma. Details are presented below.



Graduands jubilating at the 72nd Graduation

One medical student excelled with a CGPA of 4.56 on the Vice Chancellors' list

S/No	Reg. No.	Student Names	Programme	CGPA
	16/U/1227	TUTU Edward	MBChB	4.56

Twenty nine (29) medical students were on the Dean's List and received certificates

S/No	Reg. No.	Student Names	Programme	CGPA
	16/U/718	MUSOSA Nancy Joy	MBChB	4.29
	16/U/1042	OLUM Ronald	MBChB	4.22
	16/U/846	NAKULIMA Violah	MBChB	4.19
	18/U/26753/PS	NAMPEERA Rose Catherine	MBChB	4.19
	16/U/1200	TUKWATANIISE Mavol	MBChB	4.17
	16/U/63	AKANSASIRA Alvin	MBChB	4.16
	16/U/531	LUGYA Fahim	MBChB	4.16
	18/U/26703/PS	NAJJUKA Maria Sarah	MBChB	4.16
	17/U/1226	Wasswa Enock	BMR	4.16
	16/U/920	NANNUNGI Sauya	MBChB	4.14
	16/U/1281	YABINZE Bashir	MBChB	4.13
	16/U/530	LUGOLOOBI Philip	MBChB	4.12
	16/U/565	MAKAI Emmanuel Arthur	MBChB	4.10
	16/U/836	NAKITANDWE Sharifah	MBChB	4.10

	16/U/954	NDAWULA Kato Rodney	MBChB	4.10
	17/U/18843	Mubiru Allan	BMR	4.10
	16/U/1169	SUNDAY Lucky	MBChB	4.08
	16/U/610	MIREMBE Loida Mukalazi Anna	MBChB	4.07
	16/U/905	NAMUWAYA Claire	MBChB	4.05
	16/U/7050/PS	NGABIRANO Derek	MBChB	4.03
	16/U/878	NAMAYANJA Rathia	MBChB	4.02
	16/U/1943	WEKHA Godfrey	MBChB	4.02
	17/U/18688	Akugizibwe Collins	BMR	4.02
	17/U/20725/PS	Kiwafu George	BMR	4.02
	16/U/19295/PS	BABIRYE Josephine	MBChB	4.01
	18/U/26928/PS	OMODING Walter	MBChB	4.01
	16/U/357	KARUGABA Renny	MBChB	4.00
	16/U/609	MIREMBE Joy	MBChB	4.00



Some of the MakCHS PhD Graduands on 13th May 2023

MakCHS presented 13 PhD Graduands at the 72nd Graduation Ceremony of Makerere University

The College of Health Sciences (MakCHS) presented 13 graduands for conferment of Doctor of Philosophy (PhD) degrees at the 72nd Graduation Ceremony of Makerere University held 23rd – 27th May 2022.

Table 5: Research topics of the PhD Graduands presented by MakCHS at the 72nd Graduation

No.	Name	Research Title
1	AGABA Bosco	Molecular Epidemiological Surveillance of pfhrp2 and pfhrp3 gene deletions in Plasmodium falciparum parasite populations in Uganda.
2	AMONGIN Dinah	Understanding Trends and Trajectories of Repeat Adolescent Birth in Uganda
3	BAKESIIMA Ritah	Modern contraceptive use among female refugee adolescents in northern Uganda: prevalence, effect of peer counselling, adherence and experiences
4	KAPAATA Anne	Genotypic and Phenotypic Characterization of HIV-1 Transmitted/ Founder Viruses and Their Effect On Cytokine Profiles and Disease Progression Among Acutely Infected Ugandans
5	MIJUMBI Rhona	Rapid Response Services to Support Policymaking in Uganda
6	MUSABA Milton	Obstructed labour in Eastern Uganda: risk factors, electrolyte derangements, and effect of bicarbonate on obstetric outcomes
7	NAMAZZI Gertrude Kalema	Burden and risk factors for child developmental disability among infants in Busoga region, in Uganda.
8	ODEI Gloria Adobea Obeng-Amoako	Retrospective analysis of concurrently wasted and stunted children 6-59 months in the outpatient therapeutic feeding programme in Karamoja: burden, characteristics, detection, response to treatment and outcomes
9	BAYIGGA Lois	Role of Vaginal Microbiome in Host Susceptibility of HIV Infection in Pregnant Ugandan Women: Inflammatory Response and Epithelial Barrier Integrity
10	NANKYA Mutyoba Joan Eron	Hepatitis B. Among Ugandan pregnant women: Studies on Epidemiology, knowledge, perceptions and Behavioural intentions
11	MUKURU Moses	An analysis of evolutions in maternal health policies and implementation adaptations in Uganda during the MDG period (2000-2015)
12	LWANIRA Catherine Nassozi	Host genetic factors and their association with malaria among Ugandan children
13	NAPYO Agnes Kasede	Universal antiretroviral therapy for the elimination of mother-to-child transmission of HIV in Northern Uganda

Seven (7) PhD students in the School of Medicine successfully defended their theses:

1. **Dr. Annet Kutesa Mutebi** Reg. No. 2015/HD07/1267U; Student No. 215022478, a PhD student in the Clinical Epidemiology unit thesis entitled "Forensic age estimation based on third molar eruption and development for Ugandan adolescents and young adults", defended her thesis on Wednesday 04th May, 2022 which she executed successfully.
2. **Ms. Bakesiima Ritah** Reg. No. 2017/HD07/19240U; Student No. 1600712417, a PhD student in the Clinical Epidemiology unit thesis entitled "Modern contraceptive use among female refugee adolescents in northern Uganda: prevalence, effect of peer counselling, adherence and experiences." defended her thesis on Thursday 05th May, 2022 which she executed successfully.
3. **Dr. Juliet Mwanga-Amumpaire** Reg.No. 2017/HD07/19121U; Student No. 1600712417, a PhD student in the Clinical Epidemiology unit thesis entitled "Quality of Care for Common Childhood Infections in Low-Level Private Health Facilities in Mbarara District, Western Uganda." defended her thesis on Tuesday 16th August, 2022 which she executed successfully.
4. **Dr. Ekwaro A. Obuku** Reg.No. 2017/HD07/19240U; Student No. 1600712417, a PhD student in the Clinical Epidemiology unit thesis entitled "Production and use of post-graduate students' research: a multiple methods study of universities in Uganda and other low- and middle-income countries." defended his thesis on Thursday 18th August, 2022 which he executed successfully.
5. **Dr. Stella Zawedde-Muyanja** Reg.No. 2016/HD07/19050U, a PhD student in the Clinical Epidemiology unit thesis entitled "Developing a theory-informed intervention to improve linkage to treatment for patients diagnosed with tuberculosis using XPERT MTBAIF testing in Central and Eastern Uganda." defended her thesis on Monday 3rd October, 2022 which she executed successfully.
6. **Dr. Emmanuel Seremba** Reg. No. 2016/HD07/19050U, a PhD student in the Clinical Epidemiology unit thesis entitled 'Hepatitis B in Uganda: Early Childhood Transmission and Transmission Prevention Strategies in HIV-infected Adults." defended his thesis on Friday 28th October, 2022 which he executed successfully.
7. **Mr. Boniface Mutatina**, a PhD student in the Clinical Epidemiology unit thesis entitled 'Evaluating the Uganda Clearinghouse for Health Policy and Systems Research: a knowledge translation resource (one-stop-shop) for facilitating evidence-to-action." defended his thesis on Friday 11th November, 2022 which he executed successfully.



MakCHS faculty at the graduation ceremony

Developments in the Speech and Language Therapy (SLT) in 2022

The training for Speech and Language Therapists is only attained at Makerere University in Uganda in the whole of East and Central Africa. Since its inception in 2008, a lot of developments have occurred.

Academic Activities

In 2022, staff and students worked hard to enable successful implementation of the newly revised four-year SLT curriculum (from the three-year program that was started in 2008; making the program similar and as competitive as other SLT programs globally.

The pioneer 3-year BSc. Speech and Language Therapy Programme admitted students from relevant health sciences' background who already had basics such as anatomy and physiology, amongst others. Over time, the curriculum was reviewed to admit the high school students. It was later identified that the 3-year duration of study was not enough for high school students hence the need for more time to comprehensively cover the basic foundational courses of anatomy and physiology, practical and clinical exposures.



Year 4 BSLT Students in a practical session learning how to carry out hearing evaluations

Thanks to the lecturers and clinical instructors for the extra effort invested in facilitating student's learning in the various fields of the programme; including basic sciences of anatomy, physiology, psychology, linguistics, speech and language impairments, dysphagia, among others. The students had quality time of clinical exposures spent on ward rotations at Mulago hospital and in the COBERS sites.

The SLT Unit also participated in several activities such as the World Autism day where free speech and language therapy services were given in partnership with 'Autism Awareness Uganda', at Kiwatule Recreational centre on 2/04/2022; medical camps and outreaches, conferences, amongst others.

Clinical activities

The Speech and Language Therapy services offered at Mulago Hospital are majorly run by SLT Staff Makerere University. This year saw an increase in out-patients seen as well as in-patients, both Paediatrics and adults; majorly on the wards of Ear Nose & Throat and Paediatric ward 15; on the general and Sickle Cell wards.

As we increase the number of trained SLT specialists, the plan is to have the SLT clinic open daily for out-patients and also more in-patients on several wards at Mulago hospital for efficient quality SLT service delivery and optimal learning for students.

Developments in SLT

In reference to the letter dated 7th October written by the Ministry of Public Service to Mulago Hospital - Ref No. MSD/135/165/01, the Speech and Language Therapy Unit appreciates Mulago Hospital, Ministry of Health & Ministry of Public Service for listening to the Unit's cry and establishing the first recruitment of Speech and Language Therapists in Public service. The Unit is looking forward to deliver as expected for the benefit of all people with speech, language, voice, swallowing and other communication impairments and difficulties.



Year 3 SLT students observing their Lecturer conducting an dysphagia assessment and

Future Developments

The SLT unit is developing a Masters in SLT Training Curriculum that will see graduates take on various specialties, for example, Dysphagia, Audiology, Voice disorders, Language impairments, Speech impairments e.g cleft lip/palate treatment, among others. This will produce graduates that have knowledge and skills in SLT Evidence based practice.

The Unit is currently engaging partners and well-wishers who are interested in developing collaborations to support in this ground-breaking activity of seeing a specialized Masters programme established in the history of the Speech and Language Therapy Profession in Uganda.



Donation of an audiometer and books from one of the lecturers on the programme, Ms. Dana Phillips (USA Partnership)

1.2 Graduate Training:

1.2.1 PhD Lounge launched to support research and graduate training at MakCHS

Given the increasing number of graduate students and MakCHS vision to provide a conducive environment for graduate training and research, the college renovated and furnished a PhD lounge at MakCHS. This is a self-contained 24-hour service facility for PhD

students, post-doctoral fellows and early career scientists to conduct their reading, writing, and other learning activities. The facility is fitted with a seminar room and video conferencing facility to promote blended learning and optimize collaborative training activities with



MakCHS PhD Lounge

On the 20th September 2022, the Vice Chancellor, Professor Barnabas Nawangwe officiated at a ceremony to launch the PhD Lounge at Makerere University College of Health Sciences (MakCHS); as a part of the college Mak@100 celebrations.

1.2.2 Supporting dissemination of research outputs for faculty and students:

The 22nd volume Mak@100 special issue of the African Health Sciences (a peer-reviewed on-line journal produced by MakCHS, listed on PubMed), as well as the Students' Medical Journal were also launched as part of the college Mak@100 celebrations



Sitting from left: Professor Winston Tumaps Ireeta (Makerere University Council Member), Vice Chancellor – Prof. Barnabas Nawangwe, Principal, MakCHS – Prof. Damalie Nakanjako, Prof. Robert Wamala, Deputy Director – Directorate Research and Graduate Training with MakCHS Staff

The lounge, a part of the MakCHS Research Support Center, is intended to support research and graduate training at MakCHS. **Professor Nawangwe**, at the launch of the MakCHS PhD lounge, congratulated the College on achieving this milestone, he said *'We are proud of the initiatives implemented at the College of Health Sciences, which show what a good university should be'*. The Vice Chancellor also commended the clinical research for which the college is globally known for and highly

ranked on the Times 100 University Ranking. *'The Government of Uganda and University leadership is in advanced stages to establish a teaching and research hospital to support the work of MakCHS'*, the Vice Chancellor added.

In her remarks, Professor Damalie Nakanjako, Principal – MakCHS explained that the event is one of the activities through which MakCHS is celebrating 100 years of Makerere University. She thanked the authors for responding to the

call to contribute to the special issue of the African Health Sciences which documents some of the research partnerships by the MakCHS over the years.

Makerere University as an institution has defined its strategic direction in the 2020-2030 Strategic Plan to be a research-led university with a vision, *'Makerere University is a thought leader of knowledge generation for societal transformation and development'*. MakCHS

contributes 50% of the research publications out of Makerere University hence making the College a flagship unit of the University. At present, MakCHS has over 100 PhD students registered, 52% of these are female and 56% are 40years and above. Therefore, the college is moving in line with the strategic direction of the University; the PhD lounge is therefore a timely milestone to support further graduate training and research development at MakCHS and Makerere University.

1.2.3 Improved teaching and learning environment



1.2.4 The 16th Joint Annual Scientific Health Conference (JASHC)

The Makerere University College of Health Sciences (MakCHS) held its 16th Joint Annual Scientific Health Conference at Speke Resort Munyonyo, Kampala, Uganda from the 21st to 23rd September, 2022. Imbedded in the conference were the 28th Uganda National Association of Community Occupational Health (UNACOH) Conference, 3rd International Mining Occupational Safety and Health (MinOSH)

International Conference, 20th Dr. Mathew Lukwiya Memorial Lecture and the 1st National Antimicrobial Resistance Symposium. The conference organization led by the School of Medicine (SOM) was themed, ***Makerere@100: The Role of Health Professions Education in Strengthening Health Systems, Research, Global and Community Health for Economic Development***. This was an international conference that was hosted by MakCHS as a part of the celebration of 100 years of Makerere

University and an opportunity for health professionals (staff, students and partners) and other stakeholders to share advances in training, research and service delivery in Uganda, sub-Saharan Africa and globally.



Group Photo of Participants at the 16th JASHC – Front row (3rd from left Assoc. Professor Annettee Nakimuli (Dean, School of Medicine), Professor Barnabas Nawangwe (Vice Chancellor, Makerere University), Professor Damalie Nakanjako (Principal, MakCHS), Dr Innocent Besigye the JASH Co-chair, UNACOH-Leadership Dr Basaaza and Dr Cissy Nawavu

Back row Left-Right Prof Pauline Byakika, HoD Intrnal Medicine, Dr Sabrina Bakera-Kitaaka and MakCHS students)

The conference was officially opened by Professor Barnabas Nawangwe, Vice Chancellor – Makerere University. In his remarks, Professor Nawangwe congratulated MakCHS and partners for organizing the conference more especially in this centennial year of Makerere existence as a centre of excellence. The Vice Chancellor commended the college for being a leader in research and innovation, 'MakCHS is our flagship college contributing 50% of all the research publications of Makerere University in a given year', he said. He added 'we are proud of the output and the many affiliate institutes, like the Institute of Infectious Diseases (IDI) established through the college that work to serve the population'. The Vice Chancellor also explained that establishment of a research and

teaching hospital is in advanced stages with support of government. 'I believe that the CHS will flyer even higher', he added.



Professor Barnabas Nawangwe, Vice Chancellor – Makerere University officially opening the 16th JASH Conference



1st left, Professor Barnabas Nawangwe, Vice Chancellor – Makerere University; 2nd left, Professor Damalie Nakanjako, Principal College of Health Sciences viewing posters at the 16th JASH Conference



Professor Emeritus Nelson Sewankambo, keynote speaker at the 20th Mathew Lukwiya Memorial Lecture at the 16th JASH Conference

3rd International Mining Occupational Safety and Health (MinOSH) conference activities at the 16th JASH of MakCHS

By Erik Jørs

In 2017 we started out a row of MinOSH International Conferences, with the 1. Conference being celebrated in Odense Denmark. This has since been replicated in 2019 on Bali Indonesia as 'The 2nd International Conference on Mining OSH and Energy in conjunction with The 13th Indonesian Occupational Medicine Updates, and now 2022 in Kampala as the 3rd MinOSH International Conference co-organised with UNACOH's Annual Joint Scientific Health Conference (JASH Conference). In 2020 we co-organized ICOH sessions on the OCCUCON conference in Mumbai with the participation of 8 ICOH SC's. Apart from these physical and hybrid conferences with online participants as well we have organized several virtual short conferences with great success.

Our experience to pass on is that it is of great value to organize SC MinOSH conferences in mining countries where not many international conferences take place. The information shared by international and national presenters is of interest to many participants and by reaching out to a broader audience more people takes interest in the topic and eventually starts to take part in promoting OHS in mining and becomes members of ICOH and MinOSH. As you can see from the nice 'Impressions' below even a 'Mining Sector Health and Safety Working Group' is started as a spin-off from the JASH Conference and the MinOSH Conference in Kampala.

A key to success is also to involve other organizations in the conference preparation and participation. In this case we managed to co-organize with ISSA Mining, ISSA Chemical Industry and the Danish NGO Dialogos. All had presenters on the conference and with Dialogos several of us ISSA and MinOSH members managed to participate in their 3 day visit to gold mining areas in the Eastern part of Uganda to see how mercury free gold mining was practiced among small scale miners there.

Lastly to note is that by co-organizing our conferences and link up to existing conferences makes them much more easy to overcome and much cheaper to be involved in for MinOSH and gives an international flavor to the conference in favor of the national organizers. A win-win situation!

28th Uganda National Association of Community Occupational Health (UNACOH) Conference at the 16th JASH of MakCHS by Dr Deogratias Kaheeru Sekimpi,

History: In 2017, Uganda was represented in Odense, Denmark at the 1st MinOSH International Conference, both by OSH professionals and miners. Uganda missed representation at the 2nd MinOSH International Conference, in Bali, Indonesia, 2019. It was therefore a privilege when the MinOSH Committee requested Uganda National Association of Community and

Occupational Health (UNACOH) to host the 3rd MinOSH International Conference. The request was received in 2021, giving UNACOH one year to prepare. UNACOH however requested MinOSH to have the 3rd MinOSH International Conference to be co-organised with UNACOH's Annual Joint Scientific Health Conference (JASH Conference), organized in collaboration with Makerere University College of Health Science (MakCHS) and World Health Organization (Uganda Country Office). The JASH Conference is held in September each year, so too in 2022. The JASH Conference 2022 was part of Makerere University 100 years celebration.

Impressions:

1. The vote of confidence the ICOH MinOSH Committee, trusting UNACOH and Uganda to host the Conference.
2. The trust that the Organising Committee in Uganda would deliver the Conference, Covid-19, distance and technological challenges notwithstanding.
3. The organizational capacity of the MinOSH Committee leadership, with determination and patience in light of limitations and delays on the Ugandan side. We quickly got ISSA Mining on-board, and later ISSA Chemical Industry.
4. Members of MinOSH from across the world were able to identify with the 3rd MinOSH International Conference preparations and to support them.
5. Makerere University College of Health Science fully embraced the MinOSH Conference and the JASH Conference 2022 Organising Committee had a constructive working relationship with the 3rd MinOSH International Conference Organising Committee for a full year, from 2021 to 2022.
6. Despite small hitches here and there, it was possible to deliver a real time hybrid (physical and online) MinOSH Conference, dovetailing smoothly into the 16th JASH Conference (2022).
7. Participation in the 3rd MinOSH International Conference was really international both physically in Kampala and online. Bolivia, Denmark, DRC, India, Indonesia, Kenya, Nigeria, Philippines, USA, UK, Uganda were among countries with representatives.
8. Both the JASH Conference and the MinOSH Conference were successful because of the mutual support.
9. Uganda is starting a Mining Sector Health and Safety Working Group as a spin-off from the JASH Conference and the MinOSH Conference.



Delegates at the 3rd International Mining Occupational Safety and Health Conference, co-hosted by MakCHS as part of the 16th JASH on 21st September 2023

1.2.4 Medical students launched the 50th Edition of the Makerere Medical Journal (MMJ):

The MMJ provides health science undergraduate students an opportunity to start scientific writing during their undergraduate training. This nurtured scientific enthusiasm helps them to grow into innovative scientists



The Vice Chancellor Professor Barnabas Nawangwe was there to receive the first copy of the 50th Edition of the students' Makerere Medical Journal from the Medical students at the college of Health Sciences



Medical students lead Cake-cutting at the 18th Joint Annual Scientific Conference of Makerere University College of Health Sciences

1.2.5 MakCHS to Host Eastern Africa Regional Institute of the Foundation for the Advancement of International Medical Education and Research (FAIMER)

The College of Health Sciences (MakCHS) was competitively selected to host the Eastern Africa Regional Institute of the Foundation for the Advancement of International Medical Education and Research (FAIMER) in recognition of MakCHS work as a leader in education innovation and adoption of problem-based learning, competence-based medical training and community-based education and research as integral parts of medical training. In addition, MakCHS provides an environment that develops life-long learners and transformational leaders to meet community health needs in the 21st Century.

The Eastern Africa FAIMER Regional Institute (EAFRI) will utilize a multilateral partnership model, with Makerere University College of Health Sciences (MakCHS) in Kampala, Uganda, serving as a host institution and Mbarara University of Science and Technology (MUST), Faculty of Medicine in Mbarara, Uganda serving as MakCHS's regional partner. This multilateral partnership model will expand FAIMER's reach to promote health professions education and workforce development in additional areas of interest. FAIMER was established in 2000 as a non-profit foundation of the Educational Commission for Foreign Medical Graduates (ECFMG).

The core curriculum of EAFRI at MakCHS will be based on that of the International FAIMER Institute, which teaches education methods, leadership and management, education scholarship and research, and project management and evaluation. FAIMER held its first Institute in the United States in 2001 and has subsequently partnered with colleges and universities around the world to host FAIMER Regional Institutes based on the core components of this program. EAFRI joins nine other Regional Institutes, one in Chile, two in China, one in Egypt, four in India, and one in Indonesia. There are more than 2,000 graduates, known as FAIMER Fellows, of the International FAIMER Institute and FAIMER Regional Institutes, representing nearly 60 countries around the globe.

The new institute will serve health professions educators in East Africa including Uganda, Kenya, Somalia, Tanzania, Djibouti, Ethiopia, Eritrea, South Sudan, the Comoros, the Seychelles, and Mauritius. In addition, EAFRI will serve East African Community member states including the Democratic Republic of Congo, Burundi, and Rwanda. It will also consider applicants from other regions of Africa.

1.2.5 Federation of Uganda Medical Students Met at Makerere University

The Makerere University Medical Students Association (MUMSA) hosted the 17th general assembly of Medical Students under the auspices of the Federation of Uganda Medical Students Association (FUMSA). The assembly which entailed multiple activities was held from the 15th – 17th April 2022. The activities included: A Scientific Conference (**theme: Global Health during and after the Covid19 pandemic: How Healthcare Professional Students can contribute**); Delegates meeting; Health Sensitization Drive; Sports Gala and; Fundraising Dinner. FUMSA as an association brings together all the medical students in Uganda through the medical associations at the universities in the country. FUMSA provides a platform to exchange scientific information, discuss health challenges that affect country, how to improve health education and quality of healthcare in the country.



Group Photo of the 17th FUMSA General Assembly with Guest Honor – Professor Barnabas Nawangwe, Vice Chancellor, Makerere University

1.2.6 Health Professions Education Symposium featuring Advancing Health Professions Education in Uganda



Health Experts at the Symposium on 17th June 2022, MakCHS, Makerere University including Dr Namboze the first female medical graduate in East Africa at Makerere University in 1959, standing in the centre - next to Prof. Omaswa and Prof Nakanjako

As part of Mak@100 celebrations at Makerere University College of Health Sciences (MakCHS), we hosted health professions education experts to a half-day symposium on 17th June 2022, under the theme: **'Makerere@100: Advancing Health Professions Education in Uganda'**. The symposium was hosted in collaboration the African Center for Global Health and Social Transformation (ACHEST) and the Health Professions Education Partnership Initiative (HEPI) project at MakCHS. Discussions featured Health Professions Education (HPE); the past, the present and future in Uganda'. In addition, the symposium discussed emerging issues and new trends in a globalised world including the need for a pre-internship exam for medical graduate to standardize the quality and expertise of medical professionals released by the increasing number of medical schools in the country and region. The meeting was attended by academia, government institution officials, civil society, researchers and students.



Prof. Sarah Kiguli, Principal Investigator of the Health Professions Education Partnership Initiative (HEPI), presenting at the HPE symposium at MakCHS on 17th June 2022

1.2.7: The 5th Evidence to action Africa conference was hosted by MakCHS on 26-30/09/2022 under the theme: *Adapting innovative evaluation practices for Evidence-Based Decision Making during and Beyond COVID-19 pandemic.*

This international conference was officially opened by the Vice Chancellor, Makerere University, Professor Barnabas Nawangwe



Delegates at the 5th Evidence to Africa conference hosted by MakCHS 26-30th September 2023 (the first time to be hosted in Kampala, Uganda)

1.2.8 First Antimicrobial resistance (AMR) symposium, was hosted by the college of Health Sciences in conjunction with the 16th Joint Annual Scientific conference. The symposium was led by Dr Henry Kajumbula, Senior Lecturer at MakCHS and Chairman of the National Antimicrobial Resistance sub-committee of the Ministry of Health in Uganda. The theme of the AMR symposium was ***“Implementation of the National Strategic Plan against Antimicrobial Resistance: Tackling an insidious Public Health Problem”***



Dr Kajumbula mentioned that the Uganda National AMR Action Plan for antimicrobial resistance is a One Health framework strategic document to guide the holistic implementation of AMR control and reduction, with five key strategic objectives;

1. Promote public awareness, training and education
2. Improve infection prevention and control: promoting infection and control practices in communities
3. Promote optimal access and use of antimicrobials
4. Surveillance of AMR
5. Research and innovation

tripartite (FAO, OIE and WHO) collaboration. In May 2015 the WHO endorsed the Global Action Plan (GAP) on AMR and requested strengthening of the tripartite collaboration in combating AMR using the One Health Approach. In 2018 Uganda published the National Action Plan for antimicrobial resistance (AMR-NAP) that took the “One Health” design of Implementation. He the pledged on behalf of the Government of Uganda, that policy and advocacy members of the legislative arm, they commit to support the key investments needed to mitigate this health threat.



The Principal, MakCHS gave opening remarks at the antimicrobial symposium at the 16th Joint Annual Scientific conference of Makerere University College of Health Sciences. She noted that AMR is an emerging global health problem that needs multi-disciplinary and multi-sectoral including human health, animal health, environmental health, Education, Social Work, Politics, and community engagement, among others.



The Chair of the Parliamentary Health Committee, Hon. Dr Ayume officiated at the antimicrobial symposium at the 16th Joint Annual Scientific conference of Makerere University College of Health Sciences. He highlighted that AMR was one of the three flagship topics for the

Remarks from CDC by Dr. Arthur Fitz Morris, the Acting CDC country Representative, The representative noted that.

- AMR is one of the top ten global public health threats facing humanity As a result of misuse and over use of antimicrobials are the main drivers of the development of drug resistant pathogens
- In order to prevent avoidable public health threats, AMR requires collective efforts from all of us and playing key roles to prevent AMR
- The US government has committed to addressing AMR along with other threats to global health and public health security. The CDC works with more than 70 countries collaborating with Ministries of health and other entities to strengthen the workforce and health systems to prevent, detect and respond to emerging public health challenges such as AMR.
- CDC collaborated with Uganda to strengthen the work force and health Systems that are key to addressing emerging public health threats like AMR. Working with NHLS and other partners like IDI and will continue to work together to strengthen lab systems to conduct ab quality assurance and validations and train health workers on proper use of antimicrobials among other activities.

Remarks from FAO by Mr. Willington Bessong



- AMR represents a silent challenge to FAO requiring all stakeholders to work together to address the outbreaks
- FAO developed the Action Plan on AMR a road map to direct global efforts to address AMR in the food and agricultural sectors through four key areas. Like the AMR NAPs for Uganda, FAO action plan focuses on five objectives
- FAO brings on board experts in the different agricultural fields including behavioral change as well as supports the legal framework for standards and all process including communication, of collective action
- FAO appreciated the multi sectoral nature of AMR involving multi-sectoral involvement and will continue to work with partners and all actors to address the challenging situations. FAO has also supported various activities in the fight to manage AMR like document development review and updating and capacity building of the personnel and institutions.

Remarks from Mott Macdonald by Regional Coordinator;

The Mott Macdonald representative noted;

- AMR is a global threat that is currently ranking as the one of the highest contributors of mortality and which requires a concerted action to prevent and to contain. This is achievable with the multisectoral approach involving MOH, MWE, and MAAIF with UWA coming on board is a good team.
- Fleming fund Uganda started in 2016 through support to the National Action Plan to the AMR surveillance and in a belief that evidence is critical for decision making.
- Fleming fund contacted by the UK government to deliver grants to different countries. Currently operating in 24 countries with several grant schemes: regional grants like ASLM, Fellowships to build personnel capacity, Country grant through IDI
- Through the country grant-IDI: we have supported renovation of different surveillance sites. procurement of reagents and consumables, governance structures and support towards development of policies and guidelines as well as having cutting edge equipment installed at the various sites



Keynote message by Executive Director- Infectious Disease Institute:

The key note address was delivered by the Project Manager-GHSA-IDI: Reflections on AMR NAP implementation in loW and middle-Income countries

- When IDI opened the key focus programs were advanced HIV care, training in-service health care workers and research to come up with new ideas. Then expanded into two areas of consideration (i) Health systems strengthening and (ii) map laboratory services
- The vision was to Support nation health systems to support, detect and respond to emerging disease outbreaks and AMR.
- IDI strategic areas are to leverage established capacity and platforms for enhance programs that way there is easier integration of program and also sustainable.
- The impact of AMR on the African counties and other low-ncome countries, the ability to integrate lab AMR With a clinical outcome and to have that output that sense.

Recommendations

1. Can we have periodic reporting (monthly or quarterly) to inform antimicrobial resistance to the National task force. And teams are deployed to investigate the probable Causes.
2. We need to institutionalize dashboards for real-tirhe visualization and reporting of AMR cases
3. Can we advocate for country lead forums with vertical efforts focused across all levels for control of on antimicrobial resistance?
4. Periodic monitoring and evaluation of the NAP AMR against the NAP for Heath security and the National Development Plan.
5. Advocate to have funds allocated to AMR and inclusion of microbiology lab supplies, reagents and consumables in the National Medical Stores supply pipeline.

Closing remarks with key recommendations for a holistic next action of the AMR from the CHS-Laboratory Dr Susan Nabadda.

Appreciated all members for attending, the organizing committee for thinking of the AMR burden. Thanked the chief Guest for attending and his educative speech, the commissioner further emphasized on the Key Note Speaker Address together with the Guest of Honor remarks, we therefore, came up with recommendations for actions below;

- Advocacy to finance the holistic investment for antimicrobial resistance under the One Health approach, working towards improving diagnostics at all levels not only in terms of HR but also availability of supplies.
- Organize a policy brief for AMR actions and recommendations to the Parliamentary Health Committee. this will provide evidence of the burden to further the National AMR fight. This shall be organized by the AMR-TWC together with the academia institutions for presentation to the Parliamentary Health Committee.
- Support the regulatory arms of the government to formulate and implement policies geared to addressing the control on use and consumption of antimicrobials as well as importation of the right molecules of antibiotics.
- Support the financing and capacity building with allocation of specific budget votes within the collaborating Ministries Departments and Agencies with specific sector Specific budgets for AMR control. This can be directed to Human capacity development.



Delegates at the 5th Evidence to Africa conference hosted by MakCHS 26-30th September 2023 (the first time to be hosted in Kampala, Uganda)





Experts discussing advances in antimicrobial stewardship interventions in Uganda, at the Annual Antimicrobial symposium-hosted by MakCHS in September 2022

1.2.8 Internationalisation of MakCHS faculty and students

a. Inward Student mobility program: The College of Health Sciences has continued to support incoming mobility of students and staff as an international strategy. The college received forty-eight students (N=48) during the period January to June 2022. The scholars were higher institutions of learning with established partnerships with Makerere. Most of these students were graduate students from Minnesota University, United States of America. Other sending institutions were Karolinska Institutet, Sweden; University of Antwerp, Belgium; Kaiser Medical Center and Ludwig Maximilian University. The scholars undertook rotations in the Mulago

National Referral Hospital which is MakCHS main teaching hospital and its affiliated site of Kawempe. It is worth noting that the residents were involved in teaching of students at the MakCHS as well as treatment of patients during their stay in Uganda.

The International Coordination Office provides logistical support for the students stay at Makerere to ensure that they adhere with required documentations in Uganda. the office submitted 10 applications for medical license at the Uganda Medical and Dental Practitioners Council (UMDPC), as well as accommodation at the University premises at the Edge house and MUYU house for student and faculty mobility.



International students on after a luncheon at Mulago Guest House

The International Coordination Office also provides support for long-term mobility programmes. The international students are supported by the International Coordination Office and College International Students Association to interact with one another and exchanges ideas on how to support one another during their stay in Uganda. through their association organized a lunch with financial support from the office for all students at Mulago Guest house. In addition, this activity-initiated students in the cultural immersion process at MakCHS that will be followed by other activities like the cultural day.

Centralized Visa Processing: The International Coordination Office provides logistical support to both fulltime and occasional students; including application for student passes upon arrival and those that expire. From January to June 2022, the office has received 36 (Thirty-six) applications for processing. Out of the 36 applicants, (N=35) 97.2% applied to get a student pass, while (N=1) 2.8% applied to receive a dependent pass. Of these, 23 been approved, 1 (one) has an expired payment receipt, and 12 (twelve) are pending approval.

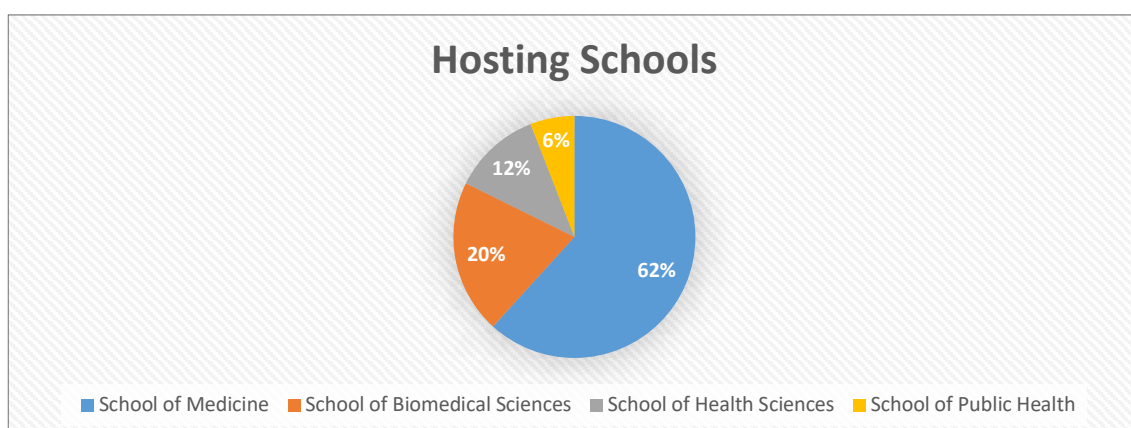
During the reporting period, applicants' countries of origin were: Somalia, Democratic Republic of Congo, Cameroon, Kenya, India, Equatorial Guinea, Rwanda, Burundi, Nigeria, United Republic of Tanzania, Pakistan, and Ghana. The most number of applicants were from Somalia (N=11) 30.6% and the least number of applicants

were from The Democratic Republic Congo(N=1) 2.8%, Equatorial Guinea (N=1) 2.8%, Rwanda (N=1) 2.8%, Burundi (N=1) 2.8%, Pakistan (N=1) 2.8%, Ghana (N=1) 2.8%. Other applicants were from Kenya (N=5) 13.9%, India (N=5) 13.9%, The United Republic of Tanzania (N=4) 11.1%, Nigeria (N=2) 5.6%, and Cameroon (N=2) 5.6%.

Level of study of the different Visa Applicants

The office receives applicants from two levels of study at (N=36).

- Undergraduate students undertaking programs that will lead to the award of Bachelors' degrees were (N=13) 38.2%
- Graduate students undertaking programs that will lead to the award of Masters' degrees were (N=23) 61.8%



Hosting Schools for the Mobility Applicants

The College of Health Sciences has 4 Schools and each of them hosted students thus: School of Medicine (N=21) 61.8%, School of Biomedical Sciences (N=7) 20.6%, School of Health Sciences (N=4) 11.8%, and School of Public Health (N=2) 5.9%. School of Medicine hosts the highest number of applicants, while Public Health hosts the least number of applicants.

- Outward Mobility at MakCHS:** The college was able to send students abroad for rotations. These rotations were undertaken through the framework of student exchange programme between Makerere University and partner institutions abroad including Karolinska Institutet, Northwestern University and Magna, Italy.

Table 7: List of students that undertook rotations abroad

	Name	Rotations	Funding Source
1	Anna Maria Gwokyalya	Cardiac Surgery,	MakCHS/Northwestern
2	Namata Tracy Tushabe	Neurosurgery	MakCHS/Northwestern
3	Kennedy Naigambi	Surgery, Orthopeadics, Inter. Medicine	Erasmus Mundus
4	Namara Catherine	Surgery, Orthopeadics, Inter. Medicine	Erasmus Mundus
5	Bekisiga Allan	Internal medicine	Karolinska Institutet
6	Linda Atulinda	Internal medicine	Karolinska Institutet



Tracy Namata, third right during a discussion with scholars at Northwestern University



Anna Gwokyalya (third from right) and surgery team at Northwestern University

NUVANCE Health, one of the international partners of MakCHS continues to support mental health training, three graduate students were successfully selected for Ruggles Scholarship. This is a great milestone for capacity building in mental health as the accumulative number of Ruggles Scholars is now six (N=6).



Ruggles Scholars: Dr. Penelope-Emma Tukasingura Kiremire; Dr. Agaba Denis; Dr. Wamala Denis

1.2. 6 Student Extra-Curricular Activities:

The East African medical quiz between seven countries of East Africa participated in the Inaugural Regional Medical quiz competition at Kisumu City and discussed Non-communicable diseases (NCDs). Eyena Jackson a Bachelor of Medicine and Bachelor Surgery student (currently a medical intern doctor) represented Makerere University.



The Makerere Team at the Inaugural Regional Medical Quiz



The Dean School of Medicine congratulating the winner Mr. Eyena Jackson who won as Makerere University representative of the quiz



Practical experiences at the Microbiology research and teaching laboratories at MakCHS







RESEARCH AND INNOVATIONS

2



2.0 RESEARCH AND INNOVATIONS

2.1: Awards of Recognition of Profession Excellence

2.1.1 Professor Nakanjako awarded TWAS-Abdool Karim 2022 Award in Biological Sciences

Professor Damalie Nakanjako, Principal – Makerere University College of Health Sciences (MakCHS) was awarded the TWAS – Abdool Karim 2022 Award in Biological Sciences by the World Academy of Sciences (TWAS). The award was announced at the TWAS 16th General Conference held on the 21st November 2022. The award named after TWAS Fellow - Quarraisha Abdool Karim was designed to honor women scientists in Low Income African Countries for their achievements in Biological Sciences.

The award is in recognition of Professor Nakanjako's clinical and translational studies on mechanisms of immune activation, inflammation and recovery of innate and adaptive immunity during chronic HIV infection and antiretroviral therapy in sub-Saharan Africa.

2.1.2 Dr. Arthur Kwizera awarded UGX. 2billion grant for respiratory failure research

Dr. Arthur Kwizera, an Associate Professor in the Department of Anaesthesia was awarded a £533,825 (about UGX.2billion) from Wellcome Trust for a clinical trial to assess whether low cost, high-flow oxygen therapies reduce need for intensive care admission and death in patients with acute hypoxemic respiratory failure (AHRF) in Uganda. The award falls within the Wellcome Innovation for Impact in Lower- and Middle-Income Countries Flagship which aims to support innovations and new technologies to prevent and treat disease. The Study will assess the efficacy of high-flow oxygen through a nasal cannula or continuous positive airway pressure (CPAP) system in improving survival of AHRF patients. This is in comparison with the commonly used mechanical ventilator. AHRF, a condition characterized by inadequate oxygen in one's blood, is the commonest reason for intensive care unit (ICU) admission and death globally.



Professor Damalie Nakanjako



Assoc. Professor Arthur Kwizera

2.1.3 Professor Moses Kamy was selected as a 2022 recipient of the Elise and Walter A. Hass International Alumni Award. The award is given to an alum who is a native, citizen and resident of another country and who has a distinguished record of service to that country.



2.1.4 Associate Professor Peter Waiswa was appointed on the World Health Organization (WHO) Advisory group. Assoc. Prof Waiswa lectures Health Policy Planning and Management at the School of Public Health, Makerere University.



Associate Professor Peter Waiswa

Dr. Seth Franklin Berkley Gowning Ceremony and Public Lecture

As part of the #MakerereAt100 celebrations, the University hosted Dr. Seth Franklin Berkley -the CEO of Gavi, the Vaccine Alliance and a global advocate of the power of vaccines. At the function, the University held a gowning ceremony for Dr. Seth' Honorary Doctorate of Science (Honoris Causa) which was virtually awarded during the 71st Graduation Ceremony in May, 2021. Dr. Seth also delivered a Public Lecture titled **"The power and Science of Vaccines"**. Dr. was recognized for his contribution to Makerere, Uganda and Global Health. He has taught at MakCHS, contributed to staff capacity

building, supported work of The Aids Support Organisation of Uganda (TASO, U) among others. He also through the Rockefeller Foundation supported establishment of the Master of Public Health (also referred to as Public Health Schools without Walls and the Master of Public Health Distance Education programme. A new building for the Makerere School of Public Health under construction has been made possible through support by Dr. Seth.



Dr. Seth Franklin Berkley receiving a gift from Professor Barnabas Nawangwe, Vice Chancellor – Makerere University at the Gowning Ceremony and Public Lecture

2.2 Research Findings

2.2.1 Research study findings showed that Iron levels of blood donors in Uganda are low

Makerere University researchers have released research findings showing that some blood donors in Uganda have low iron levels and that the donors who are deferred for low blood levels have limited insight into their situation. The findings were presented at a research dissemination workshop held on the 15th November 2022 at MakCHS. Dr. Aggrey Dhabangi, Principal Investigator (PI) of the study explained that lack of iron may result in anaemia, which in turn makes blood donors ineligible to donate. 'Other complications arising from low iron include, fatigue, low energy, and depression', he added.

Statistics show that Uganda collects about 300,000 blood donations per year which is below the WHO recommended target of one donation per 100 population per year. As such, more donations are needed to increase blood supply. The study showed that 10% of potential donors are turned away (deferred), 25% of these are due to low blood levels; these missed donations may further exacerbate blood shortages in the country.



Research Study team: 1st from right front row seated is Dr. Aggrey Dhabangi, Principal Investigator

The key findings of the study included:

- The results showed that, of all potential donors screened to donate, 20.6 % had low iron stores. Among donors with blood levels acceptable to donate, 11.5% had low iron stores, while among those already turned away from donating for low blood levels, 61.5% also had had low iron.
- The prevalence of low iron stores was higher among females (33.0%) compared to males (2.5%), but even higher among younger females i.e., 24 years and below (35.4%).
- Further analysis revealed that, eating a non-iron rich diet was a major factor linked to low iron among.

Interviews with donors turned away from donating for low blood levels revealed that many did not receive sufficient explanations as to why they were turned away, or what they were told was sometimes confusing to them.

- Although the majority were surprised to be found with low blood levels and seemed frustrated for being turned away; deferral for low blood levels was generally poorly understood. Some interpreted it to mean, they had just 'enough blood for themselves, but not enough to donate'. Others took the issue very lightly, yet the iron measurement have shown that 61.5% of these individuals besides being low on blood, they also had low iron.

The researchers gave the following recommendations:

- **Dietary (Iron-rich): Action** – The population should be encouraged to adopt healthy eating lifestyle/diet which is iron-rich. Foods like leafy greens (bbugga, dodo, nakati), liver, beef, beans among others should be included in diets.
- **Behavioural change communication** on nutrition should be instituted to get the populations to change their diets and eating habits
- **Consider Iron supplements** for the population to replete stores. The UBTS/ Ministry of Health can offer iron pills to the donors. In the past this was done.
- **Identify donors at risk of Iron Deficiency** through screening to identify affected persons early enough for interventions.
- **Improved communication** is necessary for better handling of blood donors; the capacity of UBTS staff should be built; produce IEC materials for deferred donors: IDA, treatment, prevention
- *Referral – to physicians for work-up and further management of IDA*

This study was made possible through collaboration between Makerere University College of Health Sciences and Uganda Blood Transfusion Services. Funding support was provided by the Government of the Republic of Uganda, through the Makerere University Research and Innovations Fund (MakRIF) – Round 3, financial year 2021/22.

***Research Team:** Dr. Aggrey Dhabangi (Principal Investigator (PI) and Co-PIs Dr. Godfrey Siu, Dr. Ronald Ssenyonga, Dr. Susan Acan, Mrs. Dorothy Kyeyune, and Dr. Imelda Bates

2.2.2 Researchers call for interventions to support HIV/AIDS prevention among University Students



Group photo of Study team and Participants at the Dissemination meeting

Researchers at Makerere University College of Health Sciences conducted a study and gave recommendations on how the education and health sectors can support HIV/AIDS prevention among students.

The researchers advised that the health sector should develop communication strategies and materials specific to university students and increase support to provide youth-friendly HIV prevention services at universities. The education sector working with University management should include: life skill programs during orientation of new students; HIVST delivery through peers and freshman orientations; Increase sensitization & access to PEP/PrEP by high-risk students; and update and disseminate institutional HIV policies.

The recommendations were made at a dissemination meeting for a study titled ***'HIV risk and factors associated with use of novel prevention interventions among female students at Makerere University'*** held on the 30th September 2022 at the Food Science & Technology Hall, Makerere University Campus. The study funded by Government of Uganda through the Makerere University Research &

Innovations Fund (MakRIF) was conducted by Dr. Lorraine Oriokot (Principal Investigator), Dr. Ivan Segawa, Dr. Sabrina Bakeera-Kitaka, Dr. Andrew Mujugira and Ms. Sharon Okello.

2.2.3 Makerere Bioethicists emphasize the importance of Community Engagement



As Genetics research continues growing in Uganda, Bioethicists from Makerere University College of Health Sciences stressed the importance of community engagement, genetic counselling and public sensitization when conducting Genetics research in Uganda. These recommendations were made at a research dissemination workshop held on the 8th

December 2022 at Makerere University College of Health Sciences; while presenting findings of the ELSI-UG project titled **“Ethical and social issues in informed consent processes in African genomic research”** by the Project Principal Investigator -Associate Professor Mwaka Erisa Sabakaki. The study noted that involving communities in genetics and genomics research is very important when it comes to enhancing the understanding of genetics and genomic information by the general public. ‘There has been an exponential increase in genetics and genomic research in the last two decades.

This field of research is complex and is poorly understood by various research stakeholders. One way of enhancing understanding of genetics and genomic information by the general public is through community engagement. It is therefore crucial that communities are meaningfully involved in research processes right from conception. Community engagement provides a two-way communication channel through which researchers gain better understanding of community priorities, preferences, traditions, practices, and cultural sensitivities.” explained Assoc. Prof. Mwaka



Professor Elizeus Rutebemberwa – Deputy Dean, School of Public Health, Susan and Dr. Eno, Dr. Abdi Fatah from USS

The Project Principal Investigator -Associate Professor Mwaka Erisa Sabakaki sharing findings and recommendations from the study

Dr. Mwaka also highlighted the need for translation of scientific language into local languages, genetic counsellors and consent in Genetics research adding that community engagement is crucial in building equitable research collaborations and trust between researchers and research communities.

According to National Institute of General Medical Sciences, Genetics is the scientific study of genes and how certain qualities, conditions

or traits are passed from parents to their off springs. Genomics on the other hand involves using information about genes to: identify genetic disorders including future diseases so that doctors tailor treatment for individuals.

At the meeting, Dr. Moses Ochan, the Vice Chairperson of the Makerere University Research and Ethics Committee stressed the importance of sensitization of communities and researchers before any study is undertaken. According to him, sensitization enables communities understand the advantages and disadvantages of participating in a study thus making informed decisions.



PARTNERSHIP AND COLLABORATIONS

3



3.0 PARTNERSHIP AND COLLABORATIONS



Right: The Executive Director Mulago Hospital, Dr Rosemary Byanyima and the Deputy ED Mr Sekabira interacting with the Principal, prof Damalie Nakanjako and the Dean School of Medicine Assoc. Prof Annette Nakimuli

3.1: MakCHS continues to collaborate with our key partners in clinical training at Mulago National referral Hospital, National Specialized Women and neonatal Hospital, Kawempe Hospital for Obstetrics and Gynaecology, Kirruddu Hospital for Internal Medicine, Butabika Hospital for Psychiatry where undergraduate and graduate students conduct their clinical clerkships and over 60 sites all over the country where health professions students go for Community Based Education Research and Service (COBERS).



Professor Noeline Nakasujja, Head – Department of Psychiatry, MakCHS with Dr. Monika Berge-Thelander from Karolinska Institutet

3.2 Celebrating Karolinska Institutet and Makerere University

The collaboration between Karolinska Institutet and Makerere University is one of the most comprehensive international collaborations ranging from education to research activities and the establishment of the Centre of Excellence for Sustainable Health. More than 300 students and teachers at both universities have taken part in exchange mobility since 2001, through scholarships from the Swedish Linnaeus-Palme programme, financed by Sweden's government agency for development cooperation Sida, funding raised by alumni and the European Union's Erasmus+ programme. In addition, that, in 2003, both Universities established a collaborative doctoral programme. The collaboration has been financed through the Sida Research Training Partnership Programme 2001-2022, and has resulted in more than 40 PhD graduates and more than 500 peer reviewed articles.

It is under this background that the MakCHS hosted a team of Faculty and staff from several specialties from Karolinska Institutet during the first week of May 2022 to celebrate the 20year collaboration.



President Karolinska Institutet, Ole Petter Ottersen exchanging gift with Assoc. Professor Isaac Kajja, Deputy Principal - MakCHS



Prof. Umar Kakumba, addressing staff and students at Mak-KI Alumni Reception

3.3 Regional Partnerships: Visitors from University of Southern Somalia

MakCHS values collaborations with higher institutions of learning at regional level as an internationalization strategy. Motivated by the desire to create more avenues for students and staff to acquire more knowledge, enhancement curricula with international content and others, the College has created a hospitable environment

for higher institutions of learning in the regional to work with it in health professionals' training. It is against the background the college hosted the Vice President Dr. Mohamed Abdul Kadir Eno and Chairman board of Directors Dr. Abdi Fatah Muhammed from Southern Somalia from May 30th to 2nd June 2022.



Dr. Kiragga expression his interest for continued collaboration with the College of Health Sciences

3.5 3.2 Visit by Executive Director, Baylor Uganda

The new ED of Baylor Uganda, Dr Dithan Kiragga paid a courtesy visit to the college of Health Sciences



Makerere University College of Health Sciences and College of Veterinary Medicine, Animal Resources and Bio-security have established a the African One Health Network for Disease Prevention (ADAPT) to build Capacity for Sustainable Antimicrobial Stewardship Across sub-Saharan Africa. The network includes Seven African countries (Uganda, Senegal, Nigeria, Congo Kinshasa, Ghana and Khartoum) and Germany; and will be funded by the German Federal Ministry of Education and Research (BMBF) Research Networks for Health Innovations in Sub-Saharan Africa (RHISSA)

3.6 Visiting collaborators from University of Lipzieg, Germany: Prof Uwe Truyen and Dr Ahmed El Wahed



3.7 COLLABORATION FOR EVIDENCE-BASED HEALTHCARE AND PUBLIC HEALTH IN AFRICA (CEBHA+)

CEBHA+ project is a collaborative project between Makerere University College of Health Sciences, Stellenbosch University, South Africa, Armauer Hansen Research Institute (AHRI), Ludwig Maximilian University (LMU), Germany, University of Freiburg, Germany, Kamuzu University of Health Sciences (KUHeS), Malawi, University of Rwanda, Rwanda.

The African Coordination Office at Makerere University College of Health Sciences



CEBHA+ Makerere University team in Addis Ababa, Ethiopia, for the 5th annual networking meeting, September 2022

Coordinating nine CEBHA+ sites has been a challenging but fulfilling journey! Given the different project start dates and varying processes at the African and German partner institutions among others, there has been plenty of learning and within- and across-sites interaction as we strengthen evidence-based healthcare and public health in Sub-Saharan Africa in non-communicable diseases research, capacity development, knowledge translation, and networking.

Established in 2014 and housed at the Makerere University College of Health Sciences, the African Coordination office provided oversight to all CEBHA+ partner site activities as well as coordinated dissemination of project outputs through the annual newsletter, website, social media, and other platforms.



CEBHA+ Makerere team handing over the mantle to the next meeting organisers, University of Malawi (currently KUHeS) at the first annual networking meeting in Uganda

Research Task four (RT4) hosted at Makerere University School of Public Health has had a significant impact working with the Uganda police to develop the digital road crash database. They held several capacity building workshops for RT4 staff, librarians, journalist, researchers and Uganda Police members. There has been positive collaboration with the Parliamentary Forum on Road Safety committee, the Kampala Capital City Authority, Ministry of Works and Transport, Uganda Police Traffic & Road Safety Directorate and Ministry of Health. The stakeholders are working at lobbying resources to improve pedestrian safety and making roads safer for everyone in Uganda.



Ugandan Parliamentarians signing their commitment to supporting efforts aimed at improving and promoting road safety in Uganda at the breakfast meeting with Parliamentary Forum on Road Safety (PAFROS), 2022.

It hosted the first CEBHA+ annual networking meeting in 2018, providing the first face-to-face engagement for strategic and implementation planning between all partners. The Coordination office also developed a Grants Writing Training Manual and organised capacity development activities in grants writing, research administration, and finance management.

As summarized by Prof Harriet Mayanja-Kizza, the CEBHA+ African Coordinator, "CEBHA+ convened different African and German partners to collaborate in strengthening research capacity to improve health in Africa. CEBHA+ has been and continues to be a rich learning hub"

The team has also established collaborations with the Information, Communication and Technology Directorate of the Uganda Police, and various road safety NGOs. Stakeholder engagements is ongoing and will be important for continuity of activities beyond CEBHA+.

The Ugandan PhD students, Jimmy Osuret and Esther Bayiga, have leveraged upon the range of skills and competencies with the CEBHA+ network- including the South-South and South-North mentorship and networks-to advance their research project in road traffic injuries.



Journalists being awarded at the road safety media awards 2022.

In 2022, RT4 held the first ever road safety media awards in Uganda where journalists who wrote and reported on impactful, informative and inspiring stories regarding road safety were presented with awards to encourage and motivate them to report on road safety.



Jimmy Osuret, PhD student, briefing school children for the low cost school warden programme to reduce risk of pedestrian road traffic crashes at school crossings.

3.4 Makerere University Center for Health and Population Research (MUCHAP), operating Population-based Surveillance cohorts

MUCHAP is a research and research training platform owned by Makerere University. MUCHAP runs and manages the Population-based Cohort of Iganga Mayuge Health and Demographic Surveillance Site (IMHDSS). The goal of the research platform is to provide longitudinal population-based social-economic and health data to monitor, track important health indicators and population changes that allows evidence-based decision-making for planning and policy development.

ONGOING STUDIES AT MUCHAP

Minimally Invasive Tissue Sampling (MITS)

study: This project aims to determine the cause of death using Minimally Invasive Tissue Sampling (MITS) procedure. Target Population is children under five years dying in a health facility and the community. The sample is 300 Study Area. Selected hospitals within HDSS catchment area and the HDSS community. PI is Dr. Dan Kajungu, Co-PIs – Dr Robert Lukande, Prof Grace Ndeezi, Mr Jackson Were; . Funded by Research Triangle International & BMGF

“EMERALD” quantitative study: Objective Aimed to assess the healthcare capacity for disabled women in the study area. Funded by Johns Hopkins School of Public Health PI Prof. Abdul Bachani

Data Linkage System: This is a data linkage system for morbidity surveillance. It includes the HDSS population served by Busowobi Health Center III Iganga. The electronic health records system links the HDSS data with data collected at the health facility using a unique identifier. Data from OPD laboratory, ANC and maternity are captured from patients visiting this facility and are

NIRA-MUCHAP death registration study: MUCHAP and National Identification Registration (NIRA) are in partnership to harmonize and improve death registration in a selected population under the surveillance area of IMHDSS. A retrospective survey shall target collecting data on deaths that occurred

in 2022. A prospective study shall also be conducted to generate adequate data with certified cause-of-death information. PI – Dr Dan Kajungu, Aloysius Ochola, NIRA, Prof. Chalapati Rao, Prof. Don de Savigny

EXCESS Mortality Study: The goal of this initiative is to characterize all-cause (and cause-specific) mortality rates and trends, by age and sex, across a range of rural and urban settings under continuous health and demographic surveillance in order to understand the excess mortality of the COVID-19 pandemic in key low and middle-income country (LMIC) settings. PI – Prof Steve Tolman Funded by Wit University South Africa



Conference on Public Health In Africa (CPHIA) organised by Africa CDC

The RELAB-HS network of care for persons with disabilities identified from the HDSS community. The purpose is to strengthen the health system in relation to provision of rehabilitation services and care. It is part of the bigger project in other countries. The project shall leverage on the existing health care systems in public and private facilities where physical rehabilitation services are offered. Funded by RELAB-HS/ USAID and John Hopkins SPH, PI – Prof Abdul Bachani

IDAIR Citizen Science study: This is artificial intelligence research using citizen participatory approaches for pandemic preparedness and response. Global lack of accurate, real-time

data on outbreaks and a collective science-based response framework calls for citizen science research and engagement. Data collection for this study is projected to start in March 2023. Funded by I-DAIR PI-Dr. Dan Kajungu

Data dissemination at scientific conferences: MUCHAP had one oral presentation and three Poster presentations.

Excess mortality data-analysis workshop: This workshop took place at Wits School of public health in Johannesburg, South Africa on 28th Nov. to 2nd Dec. 2022. It involved presenting data quality reports and training on data analysis methods. There was also a session on scientific writing, presentation and publication.



The Vice Chancellor Makerere University and Principal Mak College of Health Sciences visiting one of Makerere University Center for Health and Population (MUCHAP) research posters at the 16th MakCHS Joint Annual Scientific Conference

MUCHAP is engaged in other activities including:- quarterly feedback meetings and training of community scouts; training of Research Assistants on how to fill specific study questionnaires and how to approach respondents for interviews; internal and external financial audits; continuous data cleaning and analysis for core surveillance data and data for nested studies.

MUCHAP participated in the WHO/MoH national polio immunization assessment survey using Lot Quality Assurance Sampling method (LQAS). Field Surveyors were trained and deployed in various districts across the country to collect household-level data. This exercise was successfully completed in the month of November 2022



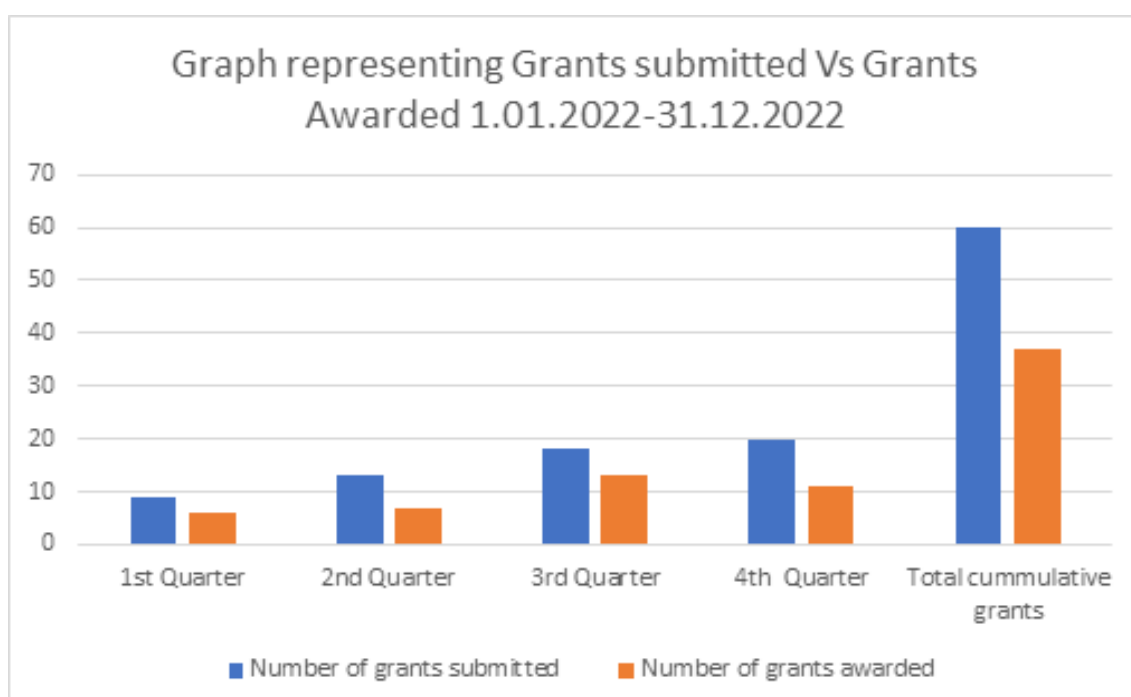
LQAS training (November 2022)

In August 2022, MUCHAP was engaged in a research collaboration to establish a network of care for persons with disability. Health-care service points were mapped out in Iganga and Mayuge districts using community resource persons. MUCHAP plans to establish a community laboratory. The building was built with funding from Pfizer International.

3.5 GRANTS AND CONTRACTS

The College Grants Office shared with the faculty/staff a total of 142 funding opportunities shared through the website, personalized emails and through outreaches to the departments. During the reporting period, a total of 21 opportunities were signed up for development and submitted through the grants office; of these 18 proposals were awarded.

Summary of grants submitted Vs the grants Awarded.					
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total cumulative grants
Number of grants submitted	9	13	18	20	60
Number of grants awarded	6	7	13	11	37



The Grants Office conducted several activities to support staff capacity during the reporting period:

Research Managers and Administrators Training

The Grants and contracts office with Health Professional Education Partnership Initiative project led by Professor Sarah Kiguli sponsored by National Institutes of Health (NIH) organized conducted a series of virtual sessions to equip research managers and administrators (RMAs) with the knowledge and skills, improving the capacity of research managers and administrators to better support Makerere University. Key areas of this training so far have been general projecting budgeting and NIH project budgeting, Internal controls and accountability, Federal

cost principles and allowable costs, reporting and sub recipient monitoring (technical and financial), Procurements processes for project.

Intellectual Property Rights Training

The Grants Office organized a training on Relevance of Intellectual Property Rights in research and Academia' on Thursday 3rd March 2022, led by Assoc. Professor Wamala Robert, deputy director for innovations in Makerere University. Following a recent needs assessment among junior faculty researchers. Objectives of this training were to enhance their knowledge of Intellectual Property rights, and improve the quality and outputs of research innovations within MakCHS, with spillover effects to other units in Makerere University.

Project Administrators Meeting

Grants and contract office organized a projects administrators meeting on 10th March, 2022 chaired by Professor Damalie Nakanjako, Principal MakCHS in principal's college boardroom. The meeting was attended by 21 research administrators. Objectives of this meeting were to identify research administrators and their roles under the college, how the Grants office and Finance office will keep track of the all projects, communicate requirements to keep track of the project's performance like quarterly reports, physical performance reports, project Activity plans, project financial plans, to understand how the college can support research administrators in their role and communicate the need for project administrators to obtain appointments letters for every project staff indicating level of effort committed on each project supported from the Human resource office.

Project Financial Management Workshop

The Grants Office personnel attended a Project Financial Management work-shop organized by the directorate of finance, Makerere University from 24th to 26th, March, 2022. The objective of the workshop was to enhance the Participants' competences in management of Projects, in accordance with sound professional standards and the harmonized requirements of donors and their respective governments. Project financial management is a critical prerequisite for successful project execution. Through sound financial management, project management is provided with timely and precise financial information which is essential for effective decision-making as well as corrective action in order to enhance the prospects of timely completion within the planned project budget and scope of deliverables. Furthermore, it provides the comfort needed by the recipient country, lenders and donor community that funds have been used efficiently and for the purposes intended. Project financial management covered areas in the roles of GAMSU in Grants management, project planning, reporting, procurement and contract management, monitoring and evaluation of government projects, how to develop an efficient and effective project management database,

an overview on the proposed project database management system.

Capacity Support to Busitema University Grants Office

The Grants and Contracts Office supported the induction training and orientation of Grants officer of Busitema University, Mr. Amos Kalisiti Ndamanywa from 20th - 23rd January, 2022. Objective of this training was to equip him with updated information and skills in grants management. The Training covered practical, hands on and presentation sessions on pre and post award Administration/Grants management cycle and submission, tips of successful Grants writing, how to search and identify funding opportunities, team formation and proposal development, organizing of systems, research costing, grants management at college in procurement, finance, different funder registration requirements, budgeting, accountability and preparing federal financial reports.

Improving Research capacity of Research Managers and Administrators

The Grants and Contracts Office supported by Research training and mentorship to strengthen brain health across the lifespan in Uganda project funded the National Institutes of Health (NIH) organized a Research Administrators Training on 28th, April, 2022 from 9:00am- 1:00pm. The overall objective of this training was to provide trainees with knowledge on the fundamentals of research Administration and management through the various topics and training sessions on Identification of funding Opportunities, tips of successful grants writing, budget development and justification. Training Presenters were well-experienced and globally recognized resourceful persons from Makerere University and other partner institutions involved in implementation of research and development programs for NIH. Mr. Mordecai Tayebwa; Senior Grants Manager College of Health Sciences and Ms. Jackie Nanteza; Grants Officer Makerere University School of Public Health Finance Management Unit.

19th H3Africa Consortium Meeting in Nigeria

Mr. Mordecai Tayebwa, the Senior Grants Manager was invited and attended the 19th H3Africa Consortium from 28th, May- 1st, June, 2022 in Nigeria organized by the National Human Genome (NHGRI), National Institutes of Health (NIH), Department of Health and Human Services (HHS), Sciences for Africa, Wellcome Trust (WT), and Institute of Human Virology Nigeria (IHVN). The goal of the H3Africa initiative is to facilitate a contemporary research approach to the study of the genomic and environmental determinants of common diseases in Africa with the purpose to improve the health population of African population in the effort to solidify networks and find workable solutions to achieve our goals in a mutually beneficial manner.

Capacity Building and Professional Development

IREX Research management support to Grants Office Staff

The Grants office personnel Ms. Tusiime Bonny and Ms. Melissa Nakiyaga and 2 other College members Ms. Irene Namatende, Senior Quality Assurance officer, Mr. Peter Kinene, Accountant MakCHS with Support from the Senior Grants Manager Mr. Mordecai Tayebwa applied for the IREX's University Administration Support Program (UASP) Fellowship in Research Management. This Fellowship supports the development of university research management and knowledge transfer capacity through a competitive, three stage program. The Goal of this fellowship is to equip a new generation of university leaders across Africa with the knowledge, skills, and perspectives to strengthen and improve institutional management of research and knowledge transfer and be catalysts of change. When awarded the staff MakCHS will better understand international trends and best practices, actively disseminate their knowledge within and beyond their institutions, and apply their ideas, skills, and networks gained through the fellowship to drive improvement to MakCHS' performance. Three grants office staff were awarded and will be participating in this fellowship

Uganda Christian University (UCU) Benchmarking Meeting

The Grants Office held a virtual benchmarking meeting with the Uganda Christian University (UCU) on 22/06/2022 under the Directorate of Research, Partnerships and Innovations, represented by Ms Angella Napakol, Head for Research and Partnerships, Professor Elizabeth Kizito - Director for Research Partnerships and Mr. Hamilton Mbokureeba, Grants Officer. The purpose of the benchmarking meeting was understanding how MakCHS Grants office works, how it has set up systems, what challenges Grants office faces and how it overcomes them. Mr. Mordecai Tayebwa, Senior Grants Manager discussed the overview of research and grants management and discussed the importance of research offices and building partnerships with other institutions to support UCU benchmarking process. Mr. Tayebwa discussed different institution registration requirements, and different funder requirements for proposal submission. The agreed on the course of action going forward was to share an operation manual with the UCU team, share funding opportunity website, share policies used at Makerere University with the UCU team, share with the UCU team Conference dates for Research societies as a course of action in setting up a Grants office at UCU.

Support to MakCHS Faculty/Staff to develop and submit grant applications

The Grants and Contracts Office supported MakCHS faculty/staff to develop and submit grant applications. Staff/faculty were taken through the application processes, the requirements which made them better applicants in the subsequent submissions. The office searched and shared funding opportunities with the faculty/staff with 168 funding opportunities shared through the website, personalized emails and through the outreaches to the departments. 14 Opportunities were signed up for development of which all were submitted through the grant's office. 12 proposals have been awarded from this quarter.

The Grants Office proposes the following for better performance:

- There is need of support for the Grants support to be rendered to the Office to facilitate activity implementation as per the strategic Plan and meet targets as per work-plans.
- There is need for projects to support the office with the percentage of the overheads dedicated to supporting the office activities.

3.6 QUALITY ASSURANCE AND GENDER MAINSTREAMING

The Principal, Professor Damalie Nakanjako appointed new members of the Quality Assurance and Gender Committee: Dr. Christine Nalwadda, Dr. Jude Onyango and Richard Mugisha (Students Rep), to fully constitute the Quality Assurance and Gender Committee at MakCHS.

The Quality Assurance Unit has continuously supported the quality of teaching and learning and supporting environment through monitoring and evaluations of several activities and recently the committee undertook physical site visits to some of the Departments in the College of Health Sciences.

Monitoring and Evaluation Site Visits: In its meeting held on 7th April 2022, the members agreed to embark on site visits to several departments. The objective of the visits was to monitor the status and performance of several school and departments. The Quality Assurance, Gender Committee developed a checklist as a methodology to collect data and indicators on the checklist included presence of Strategic Plan, Number of staff, Number of graduate and undergraduate students, collaborations, promotion of staff, innovations among others.

Among the schools and departments visited were; School of Dentistry, Department of Anatomy, Department of Immunology and Molecular Biology, Department of Orthopaedics, Department of Health Policy and Planning, and Department of Optometry. The visits were intended:

1. To monitor the performance and the status of teaching and learning facilities in the Departments.
2. To understand the various challenges the Departments are going through and
3. To gather information on students' numbers, facilities and staffing and equip the quality assurance office with the basic data base



From left Ms. Racheal Mirembe, Ms. Adikini Josephine, Dr. Onyango Jude, Prof. Elizabeth Ekirapa, Dr. Haruna Muwonge, Ms. Irene Namatende and Dr. Munanura Edson at the Department of Health Policy and Planning and Management (School of Public Health).



The Quality Assurance and Gender Committee at the Department of Orthopaedics

The Quality Assurance and Gender Committee, College of Health Sciences held a meeting on Tuesday 29th November 2022, in the College of Health Sciences boardroom to discuss issues in regard to quality assurance improvement plans. Among the issues discussed in this meeting that day, was the issue of Sustainable Development Goals (SDGS), so as to increase the ranking of the university, the importance of publications to enhance the visibility of the university, curriculum reviews to improve the quality of programs and ethical issues in regard to plagiarism and falsification of documents. A comprehensive report on Monitoring of teaching and learning in the Departments of Anatomy, Molecular Biology, Orthopaedics was presented. Among the key findings for this report was the increased number of graduate students in these departments since year 2021 to 2022 and another key finding was limited space for learning.

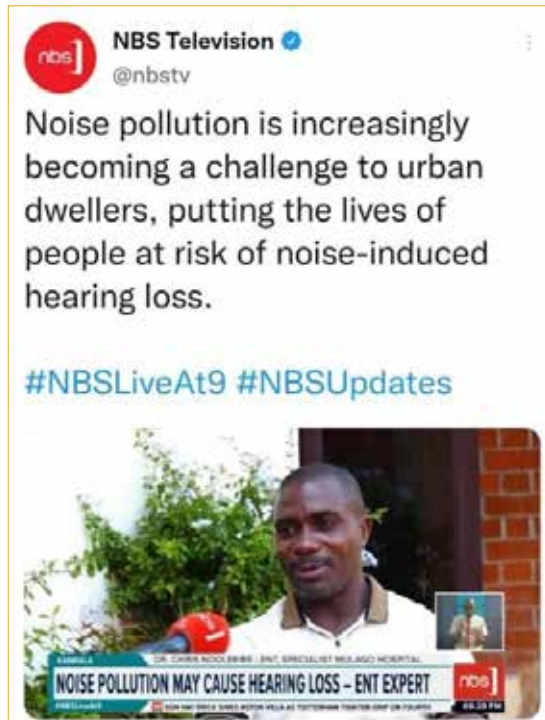


COMMUNITY SERVICE AND ENGAGEMENT

4

4.0 COMMUNITY SERVICE AND ENGAGEMENT

4.1 World hearing day March 2022: The Ear Nose and Throat (ENT) department conducted community service and Community sensitization on causes of hearing loss screening at Nakivubo Blue Primary School, Kampala.



ENT camp April 2022: A one-week surgical camp for 60 patients were operated and there was active participation of students on surgical management of disease



The surgical ENT camp in session



Audiology equipment – 2022; Dean School of Medicine, Assoc. Prof. Annettee Nakimuli receiving donation of audiology equipment from NYU



Audiology unit with installed equipment at Makerere University hospital



Bronchoscopy equipment - 2022

The Departments of ENT of Mulago National Referral Hospital and Makerere University receiving bronchoscopy equipment



HUMAN RESOURCES SERVICES AT THE COLLEGE

5



5.0 Human Resources Services at the College

During the reporting period there were several appointments, promotions and departures in the College of Health Sciences.

5.1 New staff appointments

New Dean of School of Health Sciences: Dr. Freddy Eric Kitutu, outgoing Ag. Dean for the School of Health Sciences (SHS), handed over office to Dr. Kamba Pakoyo Fadhiru as new Dean at a ceremony held on the 10th May 2022 in the Principal's Boardroom at the College of Health Sciences (MakCHS). Dr. Kitutu served in this position from 1st August 2019 to 1st April 2022 and Dr. Kamba Pakoyo has been

appointed for a term of 4 years effective 1st April 2022 to 31st March 2026. SHS is one of the four schools of MakCHS alongside School of Medicine, School of Public Health and School of Biomedical Sciences. SHS has four departments i.e., Department of Allied Health, Department of Nursing, Department of Pharmacy and the Department of Dentistry which is currently transitioning to the School of Dentistry.



Dean-School of Health Sciences Handover Ceremony: Professor Moses Joloba (2nd left), Dean – School of Biomedical Sciences represented Principal – MakCHS, Dr. Fred Kitutu (3rd from left) and Dr. Pakoyo Kamba (4th from left)

The Department of Pharmacy has a new Head: At a ceremony held at the Department of Pharmacy Offices on 13th June 2022, Dr. Kamba Pakoyo Fadhiru handed over office to Dr. Robert BD Otto as the new Head, Department of Pharmacy at the Makerere University College of Health Sciences. Dr. Kamba Pakoyo had

served in this position for a term of 4 years. The Department of Pharmacy is one of the four departments in the School of Health Sciences alongside Department of Allied Health, Department of Nursing, and the Department of Dentistry which is currently transitioning to the School of Dentistry.



Dr. Kamba Pakoyo (1st right) handing over office to Dr. B.D. Otto

5.3 Leadership training series for CHS admin

staff: A series of leadership training has been started to build capacity of all administrative staff at MakCHS with the goal of providing an efficient work environment that fosters continuous personal growth of all administrative staff.



College of Health Sciences administrative units having a first of the series of leadership training

Procurement and Disposal Unit Activities

The Procurement Unit prepared detailed procurement plans and submitted them for the financial year for both Government funds and some projects. The Unit has encouraged user departments to make timely submission of requisitions with clear specifications, terms of reference and budgets.

There were minimal emergency procurements and less variance between estimated price and actual price, this has also meant less audit queries. However, there are still challenges arising out of low response to request for information from projects.

5.4 Mentoring of academic staff: MakCHS utilizes senior faculty to mentor junior faculty to grow into reputable academics, researchers and influencers in their fields of expertise. We hold regular sessions to encourage interaction and sharing of experiences between junior and senior faculty



Mentoring session for all recently promoted Associate Professors and Professors at MakCHS, by the senior Professors in the college. This was also attended by the Director, Directorate of Research and Graduate Training (DRGT), Professor Buyinza

Faculty mentorship sessions at MakCHS



Senior Staff- Professor interacting with newly promoted Associate Professors and Professors at CHS for mentorship



Faculty mentorship sessions provide opportunities for junior staff to interact with senior staff to bridge the gap between generations of scientists at the college and to pass on the great attributes of professionalism among academics at MakCHS. Special thanks go to all the senior staff who dedicate their time to these activities. Among others are Prof Emeritus James Tumwine and Nelson Sewankambo, Prof Musisi-Seggane, Prof Philippa Musoke, Prof Grace Ndeezi, Prof Harriet Mayanja-Kizza, Prof Moses Joloba, Prof Christopher Orach, Assoc Prof Josephine Kasolo, Assoc Prof Livex Okwi *et al*

The mentored faculty are in-turn charged to mentor other junior faculty and students to keep the pipe-line of professional academic faculty at CHS

Appreciation of Senior staff who have mentored several generations of faculty at MakCHS and contributed to health innovations locally and globally.



Professor Emeritus Nelson Sewankambo honoured for being the founding Principal of the College of health Sciences and formerly Dean of the Faculty of Medicine and a faculty in the Department of Medicine, Professor Emeritus James Tumwine, honoured for being the Founding Chief Editor of Africa Health Sciences, Senior faculty and teacher in Department of Paediatrics, Prof Elly Katabira, honoured for his significant contribution to HIV care as a founder of the first HIV care clinic at Mulago hospital (ISS clinic), former President of International AIDS Society (IAS) and senior faculty and teacher in the Department of Medicine, and the Late Prof Francis Miiro, honoured for his contributions to Prevention of Mother to Child Transmission (PMTCT) research in Uganda and Senior Faculty and teacher in the Department of Obstetrics & Gynaecology.

As part of Mak@100 celebrations, MakCHS honored senior faculty who have made tremendous contributions to the health profession through their dedicated teaching and mentorship, research and innovations and global partnerships. Among them were Professor Emeritus Nelson Sewankambo, the Founding Principal of the College of Health Sciences and the formerly Dean of the School of Medicine; Prof Elly Katabira. Retired Professor of Meidicine and Former President of the International AIDS Society, Professor Emeritus James Tumwine The Founding Chief Editor of African Health Sciences, a PUBMED -listed journal at the College of health Sciences and the Late Professor Miro who first engaged in research for Prevention of Mother to Child Transmission of HIV with Nevirapine in a clinical trial HIVNET 012

These senior faculty are remembered for pioneering many 1sts in the history of the College of Health Sciences and most importantly for their selfless commitment to the profession and unlimited mentorship of generations of health professions to carry on their legacy.

End of year Celebrations

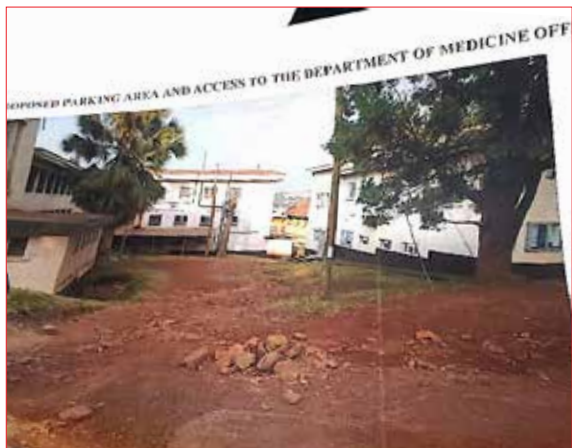
To crown the successful academic year, the Principal hosted the entire college academic board and college administrative board to a cake-cutting ceremony to mark the end of a fruitful year. Several other end of year celebrations were held in the respective departments and schools.



College of health Sciences student leaders cut the cake with the Principal at a handover ceremony to the next college student leadership

5.1 Improved working environment for faculty at MakCHS

Before the repairs



After repairs:

Faculty and students have an improved working environment



Back entrances: Before renovations



Back entrance after renovations



A ramp was created to all access for individuals with disabilities

Table 8: Renovations at MakCHS, in 2022, top provide a healthy teaching and learning environment

No.	Project	Status	Remarks
1	Department of Nursing – Parking Space and Road works Project	Completed	
2	PhD Lounge at Albert Cook Library – Disability acces Ramp Project	Completed	
3	Albert Cook Library – Graduate Student Lounge Kitchen/Tea area Project	Completed	
4	Department of Internal Medicine Office and behind Department of Anatomy Parking	Completed	
5	Albert Cook Library – Graduate Student Lounge seminar room and publication office	Completed	
6	Albert Cook Library – Biometric Access Door Project	Completed	
7	Renovation of parking lot and access road and drainage at Department of biochemistry and Research Support Centre parking	Ongoing	
8	Renovation of plumbing issues in medical illustrations department	Ongoing	
9	Renovation of student toilets in Department of Anatomy, Department of Pathology, Albert Cook Library	Ongoing	
10	Renovation of biomedical Sciences building and students' Lounge at entrance	Ongoing	
11	Renovation of students canteen, EWD evaluated and funds not yet available	Awaiting fund availability	

International Students' Accommodation – The Edge House.

The Edge House which serves as accommodation for international students got a facelift in-order to make safe and hospital. Specifically, all the bathrooms (N=6) have been renovated to suit international standards; a computer was purchased for Edge House for record keeping. This accommodation has been renovated to provide a clean and healthy environment for our visiting students and faculty.



MakCHS College administrative board cutting a Christmas Cake in December 2022



Makerere University College of Health Sciences
Mulago Hill Rod 1, Mulago Hospital Complex



Appendices

Appendix 1: Student Numbers enrolled at the College as at June 30th 2022

Academic Program	Enrolled	Enrolled	Enrolled	Enrolled	Enrolled	Total
	YR1	YR2	YR3	YR4	YR5	
SCHOOL OF MEDICINE						
Bachelor of Medicine & Bachelor of Surgery	157	153	191	164	188	853
Bachelor of Science in Medical Radiography	15	18	39	30	N/A	102
Bachelor of Science in Speech & Language Therapy	11	9	21	N/A	-N/A	41
Bachelor of Science in Palliative Care	-	-	-	N/A-	N/A	
Total (Undergraduate)	183	180	251	194	188	996
GRADUATE STUDENTS						
M.MED Internal Medicine	16	11	11	N/A	-N/A	38
M.MED Obs &Gyn	39	25	17	N/A-	N/A	81
M.MED Opthamology	3	4	2	N/A-	N/A	9
M.MED Orthopaedics	13	4	9	7	N/A	33
M.MED Paediatrics & Child Health	29	17	27	N/A-	N/A	73
M.MED Psychiatry	5	4	2	N/A-	N/A	11
M.MED Radiology	11	9	6	N/A	N/A	26
M.MED Ent	3	3	2	N/A	N/A	8
M.MED Anaesthesia	14	5	9	N/A	N/A	28
M.MED Family Medicine	5	1	2	N/A	N/A	8
M.MED Surgery	14	17	21	N/A	N/A	52
M.MED Neuro Surgery	3	3	N/A	N/A	N/A	6
MSc. Clinical Epidemiology & Biostatistics	17	25	N/A	N/A	N/A	42
MSc. Health Professions Education	5	1	N/A	N/A	N/A	6
M.MED Emergency Medicine	3	1	5	N/A	N/A	9
PhD (Medicine)	5	5	2	2	0	14
Total (Graduate Students)	185	135	115	9		444
SCHOOL OF BIOMEDICAL SCIENCES	YR1	YR2	YR3	YR4	YR5	
Bachelor of Biomedical Sciences	28	49	81	N/A	N/A	158
Bachelor of Biomedical Engineering	35	45	28	50	N/A	158

Academic Program	Enrolled	Enrolled	Enrolled	Enrolled	Enrolled	Total
Bachelor of Cytotechnology	5	17	35	N/A	N/A	52
Total (Undergraduates)	68	111	144	50		368
GRADUATE STUDENTS						
MSc. Immunology & Clinical Microbiology	35	22	N/A	N/A	N/A	57
MSc. Pathology	6	0	5	N/A	N/A	11
MSc. Pharmacology	6	7	N/A	N/A	N/A	13
MSc. Physiology	2	1	N/A	N/A	N/A	3
MSc. Health Bioethics	6	5	N/A	N/A	N/A	11
MSc. Bioinformatics	22	24	N/A	N/A	N/A	46
MSc. Human Anatomy	4	0	N/A	N/A	N/A	4
PhD (Biomedical Sciences)	5	2	5	3		15
PhD (Bioinformatics)	4	1	0	0		5
Total (Graduate Students)	90	62	10	3		165
SCHOOL OF PUBLIC HEALTH	YR1	YR2	YR3	YR4	YR5	
Bachelor of Environmental Health Sciences	39	44	71	N/A	N/A	
Total (Undergraduate students)	39	44	71	N/A	N/A	154
GRADUATE STUDENTS						
MSc. Public Health (Full-time)	43	48	N/A	N/A	N/A	91
MSc. Public Health (Distance)	76	70	60	N/A	N/A	206
MSc. Biostatistics	13	14	N/A	N/A	N/A	27
MSc. Disaster Management	5	11	N/A	N/A	N/A	16
MSc. Public Health Nutrition	10	7	N/A	N/A	N/A	17
MSc. Health Informatics	9	14	N/A	N/A	N/A	23
MSc. Health Science Research	8	13	N/A	N/A	N/A	21
MSc. Monitoring & Evaluation	17	17	N/A	N/A	N/A	34
PhD Public Health	1	6	0	1		8
Total (Graduate students)	182	200	60	1		443
SCHOOL OF HEALTH SCIENCES						
Bachelor of Science in Nursing	19	26	24	40	N/A	109
Bachelor of Dental Surgery	26	25	48	35	48	182
Bachelor of Optometry	10	16	15	16	N/A	57

Academic Program	Enrolled	Enrolled	Enrolled	Enrolled	Enrolled	Total
Bachelor of Dental Technology	9	0	6	N/A	N/A	15
Bachelor of Pharmacy	67	50	71	111	N/A	299
Total (Undergraduates)	131	117	164	202	48	392
GRADUATE STUDENTS						
MSc. Dentistry	2	0	N/A	N/A	N/A	2
MSc. Pharmacology & Therapeutics	3	12	N/A	N/A	N/A	15
MSc. Nursing	10	3	N/A	N/A	N/A	13
MSc. Pharmaceuticals & Health Supplies Management	3	12	N/A	N/A	N/A	15
MSc. Pharmacognosy	6	1	N/A	N/A	N/A	7
PhD Health Sciences	8	2	1	0	0	11
Total (Graduate Students)	32	30	1			63
COLLEGE TOTALS:						
UNDERGRADUATE STUDENTS	421	452	630	446	236	2,185
GRADUATE STUDENTS	489	427	186	13		1,115
GRAND TOTAL						3,300

Appendix 2: Human resource updates, 2022

No.	Name	Department/Unit	Status/Designation
Newly appointed Leaders			
1	Dr. Anne Kuteesa Mutebi	School of Dentistry	Dean
2	Dr. Kamba Pakoyo Fadhiru	School of Health Sciences	Dean
3	Dr. Robert B.D. Otto	Department of Pharmacy	Head
Promotions			
1	Dr. Elizeus Rutebemberwa	Health Policy Planning and Management	Professor
2	Dr. Pauline Byakika-Kibwika	Medicine	Professor
3	Dr. Nazarius Mbona Tumwesigye	Epidemiology and Biostatistics	Professor
4	Dr. Mark Kaddumukasa	Medicine	Associate Professor
5	Dr. Adriane Kamulegeya	Dentistry	Associate Professor
6	Dr. Nicolette Nabukeera-Barungi	Paediatrics and Child Health	Associate Professor
7	Dr. Etheldreda Nakimuli Mpungu	Psychiatry	Associate Professor
8	Dr. Arthur Kwizera	Anaesthesia	Associate Professor
9	Dr. Jackson K. Mukonzo	Pharmacology and Therapeutics	Associate Professor

10	Dr. John Chrysostom Ssempebwa	Disease Control and Environmental Health	Associate Professor
11	Dr. Bruce James Kirenga	Medicine	Associate Professor
12	Dr. Irene Andia Biraro	Internal Medicine	Associate Professor
13	Dr. Miriam Nakalembe	Obstetrics and Gynaecology	Associate Professor
14	Dr. Godfrey Bbosa	Pharmacology and Therapeutics	Senior Lecturer
15	Dr. Michael Okello	Human Anatomy	Senior Lecturer
16	Dr. Patience Muwanguzi	Nursing	Senior Lecturer
17	Dr. Patrick Sekimpi	Orthopaedics	Senior Lecturer
18	Dr. Jane Frances Namatovu	Family Medicine	Senior Lecturer
19	Dr. Innocent Kabahena Besigye	Family Medicine	Senior Lecturer
20	Dr. Ian Guyton Munabi	Anatomy	Senior Lecturer
21	Dr. Justine Bukenya	Community Health and Behavioural Sciences	Senior Lecturer
22	Dr. Aloysius Gonzaga Mubuke	Radiology and Radiotherapy	Senior Lecturer
23	Dr. Godfrey Erem	Radiology and Radiotherapy	Senior Lecturer
24	Dr. Simon Peter Sebina Kibira	Community Health and Behavioural Sciences	Senior Lecturer
25	Dr. Joseph Rujumba	Paediatrics and Child Health	Senior Lecturer
26	Dr. Moses Ocan	Pharmacology and Therapeutics	Senior Lecturer
27	Dr. Catherine Mwesigwa Lutalo	Dentistry	Senior Lecturer
28	Dr. Joan Nankya Mutyoba	Epidemiology and Biostatistics	Senior Lecturer
New Appointments			
1	Dr. Paul Alex Wacoo	Medical Biochemistry	Lecturer
2	Mr. Rawlance Ndejjo	Disease Control and Environmental Health	Assistant Lecturer
3	Mr. Agaba Nyangire	Disease Control and Environmental Health	Assistant Lecturer
4	Mr. Michael Mondo	Disease Control and Environmental Health	Chief Technician
5	Ms. Jackline Akello	Obstetrics and Gynaecology	Assistant Lecturer
6	Ms. Joyce Naiga	Radiology and Radiotherapy	Assistant Lecturer
7	Ms. Agnes Namaganda	Medical Physiology	Assistant Lecturer
8	Mr. Solomon Byondo Kamugisha	Medical Physiology	Technician
9	Mr. Henry Kyeyune	Pharmacy	Assistant Lecturer
10	Mr. Noah Mutebi	Pharmacy	Assistant Lecturer
11	Ms. Anita Arinda	Psychiatry	Assistant Lecturer
12	Mr. Andrew Akampurira	Medical Microbiology	Technician

Appendix 3: Number of Masters Graduands, Undergraduate, and Diploma graduands

Programme		Number of Graduands		
Masters' Programmes (School of Medicine)				
		Female	Male	Total
1	Master of Medicine	35	68	103
2	Masters of Public Health	28	30	58
3	Master of Public Health and Disaster Management	1	1	2
4	Master of Science in Biomedical Laboratory Science Management	2	3	5
5	Master of Science in Immunology and Clinical Microbiology	7	2	9
6	Master of Science in Nursing (Midwifery and Women's Health)	1	0	1
7	Master of Science in Health Informatics	1	3	4
8	Master of Dentistry and Maxillofacial Surgery	0	1	1
9	Master of Health Science in Bioethics	4	2	6
10	Master of Health Services Research	3	1	4
11	Master of Science in Public Health Nutrition	2	1	3
12	Master of Science in Pharmaceuticals and Health Supplies	4	6	10
13	Master of Science in Pharmacology	0	2	2
14	Master of Science in Pharmacognosy	0	2	2
Total Masters' degree graduands				210
Undergraduate Programmes				
15	Bachelor of Medicine and Bachelor of Surgery	66	109	175
16	Bachelor of Dental Surgery	7	24	31
17	Bachelor of Environmental Health Sciences	16	24	40
18	Bachelor of Cytotechnology	7	18	25
19	Bachelor of Science in Biomedical Engineering	9	11	20
20	Bachelor of Science in Biomedical Sciences	20	35	55
21	Bachelor of Science in Dental Technology	1	5	6
22	Bachelor of Science in Medical Radiography	3	16	19
23	Bachelor of Science in Speech and Language Therapy	1	1	2
24	Bachelor of Science in Palliative Care	8	8	16
25	Bachelor of Science in Nursing	20	8	28
26	Bachelor of Pharmacy	20	69	89
27	Bachelor of Optometry	3	12	15
28	Diploma in Palliative Care	0	1	1
Total Undergraduate				522

Appendix 4: Grants Awarded to MAKCHS including Subcontracts in 2022

No	Grant Title	PI	Funder	Amount
1	Barriers and facilitators of the integrating female genital schistosomiasis screening using digital colposcopy in reproductive health clinics in schistosomiasis endemic area of eastern Uganda.”	Mr. Abila Derrick Bary	African Research Network for Neglected Tropical Diseases.	\$ 16,384.20
2	Promoting Universal Health Coverage for Amputees through Social Enterprise and Engineering Innovation	Dr. Robert Sekitoleko	Medical Research Council (MRC).	£ 101,404
3	Development of Theileria parvustransmission blocking universal vaccines: toward control of East Coast fever cattle disease”	Dr. Charles Ndawula	African Academy of sciences- Arise grants	Euros 499,085
4	Child mental Health in HIV-impacted Low-resource settings in Developing countries: Global Research Fellowship-Supplement	Prof. Noeline Nakasujja	National Institutes of Health (NIH)	\$ 15,012
5	Reducing the Impact of Rheumatic Heart Disease across the Life Span: The Impact Program	Prof Nelson Sewankambo	National Institutes of Health (NIH)	\$ 900,550
6	Promoting Universal Health Coverage for Amputees through Social Enterprise and Engineering Innovation	Dr. Robert Sekitoleko	The Medical Research Council	£ 101,404
7	Professional Services award- Assess and facilitate the introduction of the 2017/2018 WHO PPH recommendations in health care facilities in sub-Saharan Africa.	Dr. Nakalembe Miriam Ivudria	Merck and Co., Inc (Merck) via the MSD for Mothers initiative	\$ 36,684
8	Building Uganda’s Infectious Disease Research and Innovation Capacity	Prof. Moses Joloba	NIH	\$ 200,000
9	HIV-associated NCDs Research at LMIC Institutions	Dr. Alex Kayongo	NIH	\$ 273,120
10	Addressing barriers to uptake of LF-LAM test at poorly performing health facilities in the country through use of evidence-based quality improvement approaches so as to inform further implementation and scale up	Dr. Bruce Kirenga	The Clinton Health Access Initiative, Inc. (“CHAI”)	USD 49,990.27.

No	Grant Title	PI	Funder	Amount
11	Implementation of standardized bioinformatics practices, pipelines and data structures in AMR sequencing laboratories in LMICs.	Dr. Ivan Sserwada	Bill and Melinda Gates Foundation	\$ 20,000
12	Trends of Viral Non-Suppression and the Prevalence of HIV Drug Resistance among People Living with HIV/AIDS on Antiretroviral Therapy with Low-Level Viraemia in Uganda	Dr. Nicholas Nanyeenya	UJMT LAUNCH Fellowship Program -	\$46,224
13	Predicting and Preventing Tuberculosis Treatment Failure in an Emerging Co-Epidemic of HIV, Diabetes, and Tuberculosis".	Dr. Achilles Katamba	The Patterson Trust Mentored Research Award: Clinical, Health Services and Policy Research	\$48,890
14	Pilot study of an App to Assess Multiple Behavioural Risk Markers of Autism Spectrum Disorder" study, agreement # 4531491.	Dr. Angelina Kakooza	Duke Global Health Institute	\$2,172
15	A multi-centre, prospective, randomized, open label, stepped wedge clinical trial of respiratory support with standard low flow oxygen therapy, frugal continuous positive airway pressure, and high-flow oxygen therapy in acute respiratory failure	Dr. Kwizera Arthur	Wellcome Trust	GBP528,540
16	The design and development of appropriate MedTec products for in country use; a regional comparison of West and East Africa.	Dr. Robert Sekitoleko	Worldwide University Network	GBP1,750
17	Mycobacterium tuberculosis infection and DNA damage in HIV-associated lung cancer in Uganda	Dr. Joseph Baruch Baluku	NIH	\$39,982
18	'Pharmacokinetic and safety studies of new antiretroviral formulations: expediting UNIVERSAL first - and second-line regimens for all children living with HIV in Africa.	Prof. Annette Nakimuli	Paediatric European Network for Treatment of AIDS (EDCTP) and Paediatric European Network for Treatment of AIDS	\$ 7,000

Appendix 5: Proposals submitted Under MAKCHS in 2022

No.	Grant Title	PI	Funder	Amount
1	Clinical profiles of tuberculosis survivors with and without HIV co-Infection in Uganda (laters study)	Dr. Baluku Joseph	Gilead Sciences Research Scholars Programs	\$ 99,798
2	Mentored Clinical Research to Improve Outcomes for Pediatric Mature B Cell Lymphoma in Uganda- Supplement	Dr. Ruth Namazi	NIH	\$16,684.00
3	Associations between PM2.5 and Source-Specific PM2.5-The AirQo research project and Cardiovascular/Respiratory diseases (hospitalization and ED visit rates) in the residents (children and adults) of urban Kampala, Uganda”	Dr. Shelton Maringa Tendai	Expertise France	Euros 72,292
4	Investigation of Research Administration Capacities and Practices in sub-Saharan Africa	Mr. Mordecai Tayebwa	NCURA Research Program	\$40,000
5	Increasing active TB screening and case detection among men through integration of active TB screening within men-frequented services within formal health facilities in Uganda	Dr. Kirenga Bruce		\$ 307,071
6	Genetics and genomic research in Uganda: Towards context specific ethics guidelines- Supplement	Dr. Joseph Ochieng	NIH	\$ 148,669
7	Integrated Biorepository for H3Africa Uganda- Supplement	Prof. Moses Joloba	NIH	\$ 326,548.8
8	Evaluation of the impact of a school microenvironment air pollution exposure reduction package, on levels of key air pollutants and asthma symptoms among school going adolescents in Uganda (SCHOOLAIR	Professor Moffat Nyirenda	The Global Alliance for Chronic Diseases (GACD)	£1,499,982
9	Comparative analysis of the human milk antibody response elicited by maternal immunization with various COVID-19 vaccines in high- and low-income countries: effect of pre-existing immunity, boosters, and breakthrough infection	Dr. Thomas Egwang	NIH	\$ 897,111.72

No.	Grant Title	PI	Funder	Amount
10	Consolidating Research Ethics Capacity in Uganda through Training, Mentoring and Research	Ochieng, Joseph	NIH	\$ 1,232,736
11	Helminth infections and COVID-19 clinical outcomes	Dr. Thomas Egwang	NIH	\$297,000.00
12	S-Phase Enzymatic DNA Synthesis biomarkers for Rapid Detection of Mycobacterium tuberculosis and all TB drug resistance testing.	Dr. Misaki Wayengera	NIH	\$2,678,170.00
13	Strengthening Research Integrity in Uganda through Integrity Research, Policy Development and Capacity Improvement” (SRI-U)	Dr John Barugahare	Project Office of the Assistant Secretary for Health, Office of Research Integrity	\$292,780
14	Identification of immune-reactive tick saliva proteins for constituting a Crimean Congo Hemorrhagic fever transmission-blocking recombinant vaccine	Dr Charles Ndawula	African Academy of Sciences -ARISE Grants	Euros499,085
15	Monitoring emergence of Artemisinin resistance and the drivers in malaria management in Uganda	Dr. Ocan Moses	African Academy of Sciences -ARISE grants	Euros499,992
16	Feasibility, accessibility and impact of second school- based MHealth combination intervention to prevent HIV risk	Dr. Janet Nakigudde	NIH	\$21,600
17	Implementation of a Digital-first care Delivery model for heart failure in Uganda (MEDLY Uganda)	Dr. Isaac Sinabulya	NIH IC-NHLBI	\$1,684,154
18	Research Networks for Health Innovations in Sub-Saharan Africa (RHISA)	Dr. Kalyesubula Robert	GIZ	Euros 3,242,200

Appendix 6: MakCHS Research Publications for 2022

1. Farrant MT, Masyuko SJ, Kinuthia J, Osoti AO, Mogaka JN, Temu TM, Zifodya JS, **Nakanjako D**, Ameda F, Farquhar C, Page ST. Association of HIV, cardiovascular risk factors, and carotid intimal media thickness: A cross-sectional study in Western Kenya. *Medicine (Baltimore)*. 2022 Nov 25;101(47):e31366. doi: 10.1097/MD.00000000000031366.PMID: 36451447
2. Nanyeenya N, Kiwanuka N, **Nakanjako D**, Nakigozi G, Kibira SPS, Nabadda S, Kiyaga C, Sewanyana I, Nasuuna E, Makumbi F. Low-level viraemia: An emerging concern among people living with HIV in Uganda and across sub-Saharan Africa. *Afr J Lab Med*. 2022 Oct 20;11(1):1899. doi: 10.4102/ajlm.v11i1.1899. eCollection 2022. PMID: 36353193
3. **Nakanjako D**, Omaswa F. Editorial: A century of health professions' education, training, academic research and service at Makerere University, Kampala, Uganda. *Afr Health Sci*. 2022 Aug;22(Spec Issue):iii-vii. doi: 10.4314/ahs.v22i2.2S.PMID: 36321129
4. Mulinde B, Atukunda I, Kawooya I, Sebabi FO, Mukunya D, Batte C, **Nakanjako D**, Nakiyingi L, Nalukenge C, Nakubulwa F, Musiika AA, Oti-Sengeri J. Prevalence and risk factors for visual impairment among elderly patients attending the eye clinic at Mulago National Referral Hospital, Uganda: a cross-sectional study. *Afr Health Sci*. 2022 Aug;22(Spec Issue):124-132. doi: 10.4314/ahs.v22i2.18S.PMID: 36321128
5. **Nakanjako D**, Castelnuovo B, Sewankambo N, Kakaire T, Brough RL, Katabira ET, Thomas DL, Quinn TC, Colebunders R, Greene WC, Ronald AR, Coutinho A, McAdam K, Serwadda D, Wabwire-Mangen F, Katongole-Mbidde E, Musoke P, Joloba M, McKinnell H, Kamya M, Mayanja-Kizza H, Manabe YC, Kambugu A. Infectious Diseases Institute at Makerere University College of Health Sciences: a case study of a sustainable capacity building model for health care, research and training. *Afr Health Sci*. 2022 Aug;22(Spec Issue):1-10. doi: 10.4314/ahs.v22i2.3S.PMID: 36321127
6. **Nakanjako D**, Byamugisha J. Health Service delivery and training at Makerere University College of Health Sciences: The role of the academic health centers' network. *Afr Health Sci*. 2022 Aug;22(Spec Issue):63-67. doi: 10.4314/ahs.v22i2.10S. PMID: 36321126
7. Okello E, Ssemogerere L, Ssinabulya I, Kayima J, **Nakanjako D**, Sebatta E, Lubega S, Oketcho M, Mwambu T, Lwabi P, Mijumbi C, Omagino J. Makerere University-Uganda Heart Institute collaborative cardiovascular disease training and research since 1988. *Afr Health Sci*. 2022 Aug;22(Spec Issue):68-70. doi: 10.4314/ahs.v22i2.11S. PMID: 36321124
8. **Nakanjako D**, Mayanja EK, Rwashana AS, Semitala F, Katureebe C, Ssali M, Muddu M, Ssinabulya I. Mobile Phone-based Intervention to promote un-interrupted HIV treatment during the COVID-19 pandemic. *Afr Health Sci*. 2022 Aug;22(Spec Issue):85-92. doi: 10.4314/ahs.v22i2.14S. PMID: 36321123
9. **Nakanjako D**, Bamuturaki G, Namboozee H, Sewankambo N. Use of individual development plans: experiences from junior faculty in the "NURTURE" mentored research program at Makerere University College of Health Sciences. *Afr Health Sci*. 2022 Aug;22(Spec Issue):71-79. doi: 10.4314/ahs.v22i2.12S.PMID: 36321117
10. Castelnuovo B, Kamya M, Ratanshi RP, Kiragga AN, **Nakanjako D**. Longitudinal patients' cohorts for impactful research and HIV care at the Infectious Diseases Institute. *Afr Health Sci*. 2022 Aug;22(Spec Issue):11-21. doi: 10.4314/ahs.v22i2.4S. PMID: 36321114
11. Kalanzi D, Mayanja-Kizza H, **Nakanjako D**, Semitala F, Mboowa G, Mbabali M, Kigozi E, Katabazi FA, Sserwadda I, Kateete DP, Achan B, Sewankambo NK, Muwonge A. Microbial characteristics of dental caries in HIV positive individuals. *Front Oral Health*. 2022 Sep 21;3:1004930. doi: 10.3389/froh.2022.1004930. eCollection 2022. PMID: 36211252
12. Oti-Sengeri J, Omaid BA, Bhwana D, **Nakanjako D**, Missiru M, Muwonge M, Amaral LJ, Mmbando BP, Colebunders R. High Prevalence of Glaucoma among Patients in an Onchocerciasis Endemic Area (Mahenge, Tanzania). *Pathogens*. 2022 Sep 14;11(9):1046. doi: 10.3390/pathogens11091046.PMID: 36145478
13. Yusuf AM, Lusobya RC, Mukisa J, Batte C, **Nakanjako D**, Juliet-Sengeri O. Validity of smartphone-based retinal photography (PEEK-retina) compared to the standard ophthalmic fundus camera in diagnosing diabetic retinopathy in Uganda: A cross-

- sectional study. *PLoS One*. 2022 Sep 6;17(9):e0273633. doi: 10.1371/journal.pone.0273633. eCollection 2022. PMID: 36067194
14. Namagembe I, Kiwanuka N, Byamugisha JK, Ononge S, Beyeza-Kashesya J, Kaye DK, Moffett A, Aiken CE, **Nakimuli A**. Why mothers die at a busy tertiary urban hospital in Kampala, Uganda: a comprehensive review of maternal deaths 2016-2018 and implications for quality improvement to reduce deaths. *Afr Health Sci*. 2022 Jun;22(2):489-499. doi: 10.4314/ahs.v22i2.57.PMID: 36407335 Free PMC article. Review.
 15. Karyotaki E, Araya R, Kessler RC, Waqas A, Bhana A, Rahman A, Matsuzaka CT, Miguel C, Lund C, Garman EC, **Nakimuli-Mpungu E**, Petersen I, Naslund JA, Schneider M, Sikander S, Jordans MJD, Abas M, Slade P, Walters S, Brugha TS, Furukawa TA, Amanvermez Y, Mello MF, Wainberg ML, Cuijpers P, Patel V. Association of Task-Shared Psychological Interventions With Depression Outcomes in Low- and Middle-Income Countries: A Systematic Review and Individual Patient Data Meta-analysis. *JAMA Psychiatry*. 2022 May 1;79(5):430-443. doi: 10.1001/jamapsychiatry.2022.0301. PMID: 35319740 Free PMC article.
 16. **Nakimuli-Mpungu E**, Smith CM, Wamala K, Okello J, Birungi J, Etukoit M, Mojtabei R, Nachega JB, Harari O, Musisi S, Mills EJ. Long-Term Effect of Group Support Psychotherapy on Depression and HIV Treatment Outcomes: Secondary Analysis of a Cluster Randomized Trial in Uganda. *Psychosom Med*. 2022 Oct 1;84(8):914-923. doi: 10.1097/PSY.0000000000001128. Epub 2022 Sep 6. PMID: 36162067 Free PMC article. Clinical Trial.
 17. Prevalence and factors associated with psychological distress among pregnant and non-pregnant youth living with HIV in rural Uganda: a comparative study.
 18. Kesande C, Bapolisi A, Kaggwa MM, **Nakimuli-Mpungu E**, Maling S, Ashaba S. *Psychol Health Med*. 2023 Feb;28(2):344-358. doi: 10.1080/13548506.2022.2050270. Epub 2022 Mar 9. PMID: 35260003
 19. Awor S, Byanyima R, Abola B, Kiondo P, Orach CG, Ogwal-Okeng J, Kaye D, **Nakimuli A**. Prediction of stillbirth low resource setting in Northern Uganda. *BMC Pregnancy Childbirth*. 2022 Nov 19;22(1):855. doi: 10.1186/s12884-022-05198-6. PMID: 36403017 Free PMC article.
 20. Nanyunja C, Sadoo S, Mambule I, Mathieson SR, Nyirenda M, Webb EL, Mugalu J, Robertson NJ, Nabawanuka A, Gilbert G, Bwambale J, Martinello K, Bainbridge A, Lubowa S, Srinivasan L, Ssebombo H, Morgan C, Hagmann C, Cowan FM, Le Doare K, Wintermark P, Kawooya M, Boylan GB, **Nakimuli A**, Tann CJ. Protocol for the Birth Asphyxia in African Newborns (Baby BRAiN) Study: a Neonatal Encephalopathy Feasibility Cohort Study. *Gates Open Res*. 2022 Mar 3;6:10. doi: 10.12688/gatesopenres.13557.1. eCollection 2022. PMID: 35614965 Free PMC article.
 21. Namagembe I, **Nakimuli A**, Byamugisha J, Moffett A, Aiken A, Aiken C. Preventing death following unsafe abortion: a case series from urban Uganda. *AJOG Glob Rep*. 2022 Feb;2(1):100039. doi: 10.1016/j.xagr.2021.100039. PMID: 35252906 Free PMC article.
 22. Namagembe I, Chukwuma SM, **Nakimuli A**, Kiwanuka N, Byamugisha J, Moffett A, Aiken CE. Learning from maternal deaths due to uterine rupture: review of cases from peri-urban Uganda. *AJOG Glob Rep*. 2022 Jun 11;2(3):100063. doi: 10.1016/j.xagr.2022.100063. eCollection 2022 Aug. PMID: 36276797 Free PMC article.
 23. Sekitoleko I, Tino S, Mubiru M, Nansubuga F, Zaake D, Nakabuye B, Ayiko B, Kalema H, Nakubulwa S, Sekikubo M, Milln J, Nakanga WP, **Nakimuli A**, Webb EL, Nyirenda MJ. The influence of fasting and post-load glucose levels on maternal and neonatal outcomes in women with hyperglycaemia in pregnancy in Uganda: A prospective observational cohort study. *Diabetes Res Clin Pract*. 2022 Sep;191:110049. doi: 10.1016/j.diabres.2022.110049. Epub 2022 Aug 24. PMID: 36029888
 24. Nantaayi B, Ndawula RK, Musoke P, Ssewante N, Nakyagaba L, Wamala JN, Makai EA, Wannyana B, Wamala NK, Kanyike AM, Akech GM, Ojilong D, Agira D, **Nakimuli AB**, Asiimwe A, Bongomin F. Psychological Distress and Access to Mental Health Services Among Undergraduate Students During the COVID-19 Lockdown in Uganda. *Front Psychiatry*. 2022 Jun 2;13:792217. doi: 10.3389/fpsy.2022.792217. eCollection 2022. PMID: 35722591 Free PMC article.
 25. Semaan A, Banke-Thomas A, Amongin D, Babah O, Dioubate N, Kikula A, Nakubulwa S, Ogein O, Adroma M, Anzo Adiga W,

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CHS staff at graduation in May 2022



CHS PhD graduands jubilating in May 2022





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