

ANNUAL REPORT 2023





College of Health Sciences



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MAKERERE UNIVERSITY COLLEGE OF HEALTH SCIENCES



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

ith pleasure I present to you the Makerere University College of Health Sciences (MakCHS) annual report for the year 2023. 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 2023.

Through our mission to provide transformational education and research to improve service delivery and wellbeing of the communities, MakCHS exhibited admirable performance through its 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 all our staff, students, and stakeholders upon completion of a very productive 2023, as we struggled to return to the pre-COVID University calendar. Special thanks go to each one of you for your individual and cooperate contributions to offering our students, staff and partners memorable learning experiences at MakCHS.

Our major challenge is keeping with the current and emerging needs of the society we serve nationally and globally. This year MakCHS had a systematic review of the 2011 college research agenda to create the 2023-2040 research agenda that is responsive to the third national development plan (NDP III) and global sustainable development goals (SDGs). In addition to key priorities of the 2011 research priorities that are still relevant, the revised research agenda has adopted key pressing societal challenges that include Translational Science, Biomedical Research & Discovery (including pre-clinical studies, genomics,

product development & commercialization), Population Health, Climate change, health systems research, urbanization and their impact on health, pollution, food security and immigration. In addition, mental health as wells as Digital Health, Artificial Intelligence and Big Data applications were included as priority areas to improve health outcomes for the 21st century society.

We continue to be spurred on by our mission to provide transformative education to health professionals that will transform health care in Uganda, Africa and globally. We are encouraged by the great words of Jon Gordon, an American author and speaker on leadership who said, "We don't get burned out because of what we do. We do get burned out because we forget why we do it". At MakCHS, remembering our vision to be a leading and transformational institution for academic excellence and innovation in Health sciences in Africa keeps us going strong.

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.

On behalf MakCHS leadership I wish you a happy holiday season and a blessed productive 2024



Professor Damalie Nakanjako
Principal - Makerere University College of
Health Sciences

DEPUTY PRINCIPAL'S MESSAGE



It is with great pleasure that I welcome all our stakeholders in the strive to shape our future health workers to the 2023 Annual Report from the College of Health Sciences – Makerere University (MakCHS). I greet you in the name of the Almighty God. Special congratulations to every one of you who has achieved something in the academic spheres and I grieve with those who have lost loved ones in the year ending.

I send my gratitude to everyone in line of service towards MakCHS prosperity. To our dear students, thank you so much for understanding the prevalent economic challenges of your country and accept to accomplish all your academic obligations in a timely manner. To the teaching and administrative staff, thank you so much for your persistent support on the implementation of the college mandate of skilling and training the future health-care human resource. To the University top management, we appreciate your guidance, mentorship and moral support. To our line Ministry and government, we thank you for the continued support in all aspects. Your in-put has enabled us achieve a lot on our mandate.

Achievements: Amidst all tribulations the MakCHS has witnessed growth in academic careers of a number of its teaching staff in the year ending. I strongly commend the efforts and congratulate all those staff who have been promoted to various levels. We have witnessed

the support and operationalization of the School of Dentistry by the University Top management. This has increased the constituent schools of the College of Health Sciences from four in 2022 to five in 2023. We highly commend the efforts of all contributors to this milestone.

With support from the university management, there has been an increase in the number of graduates at all levels including PhD, Masters, Undergraduates and fellowships distributed across our constituent schools. 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 staff to motivate them and build capacity. The 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 as we build for the future.

Enjoy the coming year with zeal and good health.

Dr. Isaac Kajja Associate Professor of Orthopaedic Surgery Deputy Principal MakCHS

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. Annettee Olivia Nakimuli Dean School of Medicine



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



Dr. Kamba PakoyoDean School of Health
Sciences



Prof. Josephant Byamugisha Director, Makerere University Health Services



Prof Elzeus Rutebemberwa Deputy Dean School of Public Health



Dr. Kaddu Mukasa (Deputy Dean School of Medicine)



Dr. Annette KutesaDean School of Dentistry)

Heads of Departments



Prof. Moses Galukande (Surgery)



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 (Optometry)



Dr Joan Mutyoba (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



Dr. Alison Kinengera (Head of Albert Cook Library)



Prof. Joan Kalyango



Ms. Ahabwe Precious



Dr. Tonny Stone Luggya (Anaesthesia)



(OBS and Gyn)



Dr. Stephen Mpungu Kiwuwa (Biochemistry)



Dr. Otiti Juliet Sengeri (Ophthalmolgy)



Dr. Christine Nalwadda Community Health & Behavioural Sciences



Mr. Lukiza Paul,



Dr. B.D Otto Pharmacy



Dr. Ndoleriire Christopher Ear, Nose & Throat (ENT)

COLLEGE ADMINISTRATIVE LEADERS





















Rachel Mirembe Senior Administrator Principals Office



(Procurement Assistant)



APPRECIATION OF OUTGOING LEADERS AND WELCOME TO THE NEW LEADERS



Prof. Moses Joloba,Previous Dean,
School of Biomedical Sciences



Assoc. Prof David Kateete
New Dean,
School of Biomedical Sciences



Dr. Fadhir Kamba,
Previous Dean,
School of Health Sciences



Dr. Richard MuhindoNew Dean,
School of Health Sciences



Dr. Fred Makumbi, Previous Deputy Dean, School of Public Health



Prof. Elzeus RutebemberwaDeputy Dean,
School of Public Health



Dr. Elizabeth Ekirapa,Previous Head, Department
of Health Policy Planning &
Management



Dr. Suzanne Kiwanuka, New Head, Department of Health Policy Planning & Management



Dr. Patience Muwanguzi,Previous Head,
Department of Nursing



Dr. Tom Ngabirano, New Head Department of Nursing



INTRODUCTION

1.0 INTRODUCTION

Overall, Makerere University College of Health Sciences (MakCHS) has a total of 3405 students and 31% at graduate level; and the number of graduate students has increased over the last three years, which aligns with the strategic direction of Makerere University to become a research-led institution.

A summary of the student enrollment id provided in table 1a) for undergraduate students and table 1b) for graduate students.

1a) Undergraduate Students

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

1b) Graduate Students

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 (41%)
	Percentage of graduate students	34%	32%	42%

Through its five constituent schools (School of Medicine, School of Biomedical Sciences, School of Public Health, School of Health Sciences, and School of Dentistry), MakCHS continues to offer highly competitive academic programs (13 undergraduate and 40 graduate programs) and lead in health research and innovation in the country and the region.



Mrs. Lorna Magara, Chairperson Makerere University Council Giving remarks at the Council visit to MakCHS Early this year, on the 3rd of March 2023, we were privileged to host the Makerere University Council at MakCHS to interact with the staff and a academic leaders at the college. The University Council, led by the Chair, Mrs. Magara commended the innovations and research at MakCHS and pledged to support to the College in achieving greater heights. Mrs. Lorna Magara expressed the delight of her team to visit and explained that the purpose of the visit was to interact with MakCHS staff, and understand the challenges that that require Council's attention.

The Chairperson of the University council was accompanied by Hon. Dan Kidega (Vice Chairperson – Council), Mr. Edwin Karugire (Chairperson – Appointments Board), Mr. Edward Sengonzi Ddamulira (Council Member), Mr. Bruce Kabaasa (Chairperson – Finance, Planning, Administration & Investment Committee), Dr. Sarah Ssali (Chairperson – Quality Assurance, Gender & ICT Committee), and Mr. George Bamugemereire (Chairperson – Legal, Rules, Privileges & Estates Committee).



Group Photo: Makerere University Council and MakCHS Leadership

Staff at MakCHS who interacted with the University Ccouncil included Professor Damalie Nakanjako welcomed Council to MakCHS and introduced staff present including Deputy Principal, Associate Professor Isaac Kajja; Deans of Schools, and Administrative Staff.

STUDENT ENROLLMENT

2.0 STUDENT ENROLLMENT

Table 2 below shows the number of students enrolled at MakCHS as at 31st January 2023.

Table 2: Student Numbers at the College as at 31st January 2023

Study Programme	Enrolled	Enrolled	Enrolled	Enrolled	Enrolled	Total
UNDERGRADUATES	YR1	YR2	YR3	YR4	YR5	
SCHOOL OF MEDICINE						
Bachelor of Medicine & Bachelor of Surgery	157	153	191	164	188	
Bachelor of Science in Medical Radiography	15	18	39	30	0	
Bachelor of Science in Speech & Language Therapy	11	9	21	-	-	
Bachelor of Science in Palliative Care	-	-	-	-	-	
Total	183	180	251	194	188	996
SCHOOL OF BIOMEDICAL SCIENCES						
Bachelor of Biomedical Sciences	28	49	81	-	-	
Bachelor of Biomedical Engineering	35	45	28	50	-	
Bachelor of Cytotechnology	5	17	35	-	-	
Total	68	111	144	50		373
SCHOOL OF PUBLIC HEALTH						
Bachelor of Environmental Health Sciences	39	44	71	-	-	
Total	39	44	71		-	154
SCHOOL OF HEALTH SCIENCES						
Bachelor of Science in Nursing	19	26	24	40	-	
Bachelor of Optometry	10	16	15	16	-	
Bachelor of Pharmacy	67	50	71	111	-	
Total	96	92	110	167		465
SCHOOL OF DENTISTRY						
Bachelor of Dental Surgery	26	25	48	35	48	
Bachelor of Dental Technology	9	0	6			
Total	35	25	54	35	48	197
TOTAL UNDERGRADUATE STUDENTS	421	452	630	446	236	2,185

Study Programme	Enrolled	Enrolled	Enrolled	Enrolled	Enrolled	Total
GRADUATE STUDENTS						
	Enrolled	Enrolled	Enrolled	Enrolled	Enrolled	Total
M.MED Internal Medicine	16	11	11	-	-	38
M.MED Obs &Gyn	39	25	17	-	-	81
M.MED Ophthalmology	3	4	2	-	-	9
SCHOOL OF MEDICINE	YR1	YR2	YR3	YR4	YR5	
M.MED Orthopaedics	13	4	9	7	-	33
M.MED Paediatrics & Child Health	29	17	27			73
M.MED Psychiatry	5	4	2			11
M.MED Radiology	11	9	6			26
M.MED Ent	3	3	2			8
M.MED Anaethesia	14	5	9			28
M.MED Family Medicine	5	1	2			8
M.MED Surgery	14	17	21			52
M.MED Neuro Surgery	3	3	-			6
MSc. Clinical Epidemiology& Biostatistics	17	25	-			42
MSc. Health Professions Education	5	1	-			6
M.MED Emergency Medicine	3	1	5			9
PhD (Medicine)	5	5	2	2		14
Total (Graduate Students)	127	95	85	9		316
SCHOOL OF BIOMEDICAL MEDICINE						
MSc. Immunology & Clinical Microbiology	35	22				57
MSc. Pathology	6	0	5			11
MSc. Pharmacology	6	7				13
MSc. Physiology	2	1				3
MSc. Health Bioethics	6	5				11
MSc. Bioinformatics	22	24				46
MSc. Human Anatomy	4	0				4
PhD (Biomedical Sciences)	5	2	5	3		15
PhD (Bioinformatics)	4	1				5
Total (Graduate Students)	90	62	10	3		165
SCHOOL OF PUBLIC HEALTH						
MSc. Public Health (Full-time)	43	48				91
MSc. Public Health (Distance)	76	70	60			206

Study Programme	Enrolled	Enrolled	Enrolled	Enrolled	Enrolled	Total
MSc. Biostatistics	13	14				27
MSc. Disaster Management	5	11				16
MSc. Public Health Nutrition	10	7				17
MSc. Health Informatics	9	14				23
MSc. Health Science Research	8	13				21
MSc. Monitoring & Evaluation	17	17				34
PhD Public Health	1	6		1		7
Total (Graduate students)	182	200	60	1	-	442
SCHOOL OF DENTISTRY						
MSc. Dentistry	2	0				2
SCHOOL OF HEALTH SCIENCES						
MSc. Pharmacology & Therapeutics	3	12				15
MSc. Nursing	10	3				13
MSc. Pharmaceuticals & Health Supplies Management	3	12				15
MSc. Pharmacognosy	6	1				7
PhD Health Sciences	8	2	1			11
Total (Graduate Students)	30	30	1			61
TOTAL GRADUATE STUDENTS						
						986
CHS TOTAL STUDENT ENROLLMENT		FEMALE	MALE			
UNDERGRADUATE	2185	35%				
GRADUATE	986 (31%)	39%				
TOTAL STUDENTS	3171					

HUMAN RESOURCES:

3. HUMAN RESOURCES:

3.1 Staff Establishment:

The college of health sciencence has up to 302 academic staff within 29 department and up to 70 academic positions are vacant in the respective departments as shown in the table below.

It is important to note that with the growth of the health professions education and health care disciplines, the current establishment (that was was used long before transitioning the faculty of medicine into a college) is nolonger sufficient. For a example, we established skills lab/ simulation labs as critical part of skills training but skills lab managers are not part of the establishment. Similarly, despite the advances in the use of IT in teaching and learning IT officers are not in the establishment at college, school and departmental levels. Furthermore, healthcare departments have grown to embrace subspecialisation to meet the societal needs fro subspecialty health care services (e.g. dermatology, neurology, gastroenterology, endocrinology, urology, etc) that many citizens seek abroad, yet the departmental

ASSISTANT LECTURER

establishments have not had similar growth to accommodate these subspecialties. In addition. Biomedical Engineering has emerged as a much needed program in health care delivery and innovation of health care interventions. In response to this need, a bachelors' degree in biomedical engineering was established with has been successful and a biomedical engineering department needs to be establisled. Similarly, the Department of Dentistry has grown into a dental school, as recommended by the East Africa Medical and Dental Practitioners council and the target of establishing at least 5 departments in the dental school is yet to be achieved.

These matters were presented in the recent review of the establishment by the University Council and we are awating favourable considerations of the reviews that were submitted by the respective academic departments to improve the quality of teaching and learning as well as the health service delivery offeref at the college of health sciences.

1

TABLE 3: HUMAN RESOURCE AT THE COLLEGE OF HEALTH SCIENCES					
	ESTABISHMENT POSITIONS	FILLED	VACANT		
DEPARTMENT OF HUMAN ANATOMY	15	9	6		
PROFESSOR	1	0	1		
ASSOCIATE PROFESSOR	1	4	-3		
SENIOR LECTURER	3	2	1		
LECTURER	6	2	4		

4

		ESTABISHMENT POSITIONS	FILLED	VACANT
DEPAR	TMENT OF MEDICAL MICROBIOLOGY	12	6	5
	PROFESSOR	1	0	1
	ASSOCIATE PROFESSOR	1	1	0
	SENIOR LECTURER	2	2	0
	LECTURER	4	3	1
	ASSISTANT LECTURER	4	1	3

3

	ESTABISHMENT POSITIONS	FILLED	VACANT
DEPARTMENT OF IMMUNOLOGY AND MOLECULAR BIOLOGY	12	7	5
PROFESSOR	1	1	0
ASSOCIATE PROFESSOR	1	1	0
SENIOR LECTURER	2	2	0
LECTURER	4	3	1
ASSISTANT LECTURER	4	0	4

	ESTABISHMENT POSITIONS	FILLED	VACANT
DEPARTMENT OF MEDICAL PATHOLOGY	12	6	5
PROFESSOR	2	1	1
ASSOCIATE PROFESSOR	1	0	1
SENIOR LECTURER	2	1	1
LECTURER	3	3	0
ASSISTANT LECTURER	4	1	3

	ESTABISHMENT POSITIONS	FILLED	VACANT
DEPARTMENT OF PHARMACOLOGY AND THERAPEUTICS	12	11	1
PROFESSOR	1	0	1
ASSOCIATE PROFESSOR	1	1	0
SENIOR LECTURER	2	3	-1
LECTURER	4	3	1
ASSISTANT LECTURER	4	4	0

		ESTABISHMENT POSITIONS	FILLED	VACANT
DEPAR	TMENT OF PHYSIOLOGY	14	13	1
	PROFESSOR	1	0	1
	ASSOCIATE PROFESSOR	1	1	0
	SENIOR LECTURER	2	1	1
	LECTURER	6	6	0
	ASSISTANT LECTURER	4	5	-1

		ESTABISHMENT POSITIONS	FILLED	VACANT
DEPAR	TMENT OF ANAESTHESIA	12	13	-1
	PROFESSOR	1	0	1
	ASSOCIATE PROFESSOR	1	1	0
	SENIOR LECTURER	2	2	0

LECTURER	4	9	-5
ASSISTANT LECTURER	4	1	3

	ESTABISHMENT POSITIONS	FILLED	VACANT
DEPARTMENT OF CHILD HEALTH DEVELOPMENT CENTRE	12	8	4
PROFESSOR	1	1	0
ASSOCIATE PROFESSOR	1	0	1
SENIOR LECTURER	2	4	-2
LECTURER	4	3	1
ASSISTANT LECTURER	4	0	4

	ESTABISHMENT POSITIONS	FILLED	VACANT
MEDICAL BIOCHEMISTRY	7	2	5
PROFESSOR	1	0	1
ASSOCIATE PROFESSOR	1	0	1
SENIOR LECTURER	1	0	1
LECTURER	3	1	2
ASSISTANT LECTURER	1	1	0

	ESTABISHMENT POSITIONS	FILLED	VACANT
DEPARTMENT OF PAEDIATRICS AND CHILD HEALTH	17	18	-1
PROFESSOR	2	3	-1
ASSOCIATE PROFESSOR	1	5	-4
SENIOR LECTURER	4	4	0
LECTURER	6	4	2
ASSISTANT LECTURER	4	2	2

	ESTABISHMENT POSITIONS	FILLED	VACANT
EAR, NOSE & THROAT	12	7	5
PROFESSOR	1	0	1
ASSOCIATE PROFESSOR	1	0	1
SENIOR LECTURER	2	1	1
LECTURER	4	6	-2
ASSISTANT LECTURER	4	0	4

		ESTABISHMENT POSITIONS	FILLED	VACANT
DEPAR MEDIC		12	5	7
	PROFESSOR	1	0	1
	ASSOCIATE PROFESSOR	1	0	1
	SENIOR LECTURER	2	3	-1
	LECTURER	4	2	2
	ASSISTANT LECTURER	4	0	4

		ESTABISHMENT POSITIONS	FILLED	VACANT
DEPAR	TMENT OF MEDICAL ILLUSTRATION	9	4	2
	MEDICAL ILLUSTRATOR (PROF)	1	0	1
	DEP. ILLUSTRATOR (ASSO. PROF)	1	0	1
	SEN.ASST.MED.ILLUSTRATOR(SEN.LEC)	1	0	1
	ASST.MED.ILLUTUSTRATOR (LECTURER)	3	4	-1
	ASST.MED.ILLUTUSTRATOR (TRAINEE)	2		2
	CHIEF MEDICAL PHOTOGRAPHER	1	0	1

		ESTABISHMENT POSITIONS	FILLED	VACANT
DEPARMEN	NT OF INTERNAL MEDICINE	19	17	2
PR	OFESSOR	2	5	-3
AS	SOCIATE PROFESSOR	2	5	-3
SEI	NIOR LECTURER	5	4	1
LEC	CTURER	6	3	3
AS	SISTANT LECTURER	4	0	4

	ESTABISHMENT POSITIONS	FILLED	VACANT
TMENT OF OBSTERICS AND COLOGY	18	17	1
PROFESSOR	3	2	1
ASSOCIATE PROFESSOR	1	3	-2
SENIOR LECTURER	3	6	-3
LECTURER	7	4	3
ASSISTANT LECTURER	4	2	2

		ESTABISHMENT POSITIONS	FILLED	VACANT
DEPAR	TMENT OF OPTHAMOLOGY	10	4	6
	PROFESSOR	1	0	1
	ASSOCIATE PROFESSOR	1	0	1

SENIOR LECTURER	2	1	1
LECTURER	2	3	-1
ASSISTANT LECTURER	4	0	4

		ESTABISHMENT POSITIONS	FILLED	VACANT
DEPART	MENT OF ORTHOPAEDICS	13	6	7
Р	PROFESSOR	2	0	2
А	ASSOCIATE PROFESSOR	1	1	0
S	SENIOR LECTURER	2	2	0
L	LECTURER	4	3	1
А	ASSISTANT LECTURER	4	0	4

	ESTABISHMENT POSITIONS	FILLED	VACANT
DEPARTMENT OF PSYCHIATRY	12	16	-4
PROFESSOR	1	1	0
ASSOCIATE PROFESSOR	1	5	-4
SENIOR LECTURER	2	4	-2
LECTURER	4	4	0
ASSISTANT LECTURER	4	2	2

	ESTABISHMENT POSITIONS	FILLED	VACANT
DEPARTMENT OF RADIOLOGY	9	11	-2
PROFESSOR	1	0	1
ASSOCIATE PROFESSOR	1	0	1
SENIOR LECTURER	1	2	-1
LECTURER	2	5	-3
ASSISTANT LECTURER	4	4	0

	ESTABISHMENT POSITIONS	FILLED	VACANT
DEPARTMENT OF SURGERY	20	13	7
PROFESSOR	2	1	1
ASSOCIATE PROFESSOR	2	0	2
SENIOR LECTURER	7	3	4
LECTURER	5	9	-4
ASSISTANT LECTURER	4	0	4

	ESTABISHMENT POSITIONS	FILLED	VACANT
DEPARTMENT OF COMMUNITY HEALTH AND BEHAVIOURAL SCIENCES	11	12	-1
PROFESSOR	1	1	1
ASSOCIATE PROFESSOR	1	1	0
SENIOR LECTURER	2	4	-2
LECTURER	3	4	-1
ASSISTANT LECTURER	4	2	2

		ESTABISHMENT POSITIONS	FILLED	VACANT
DEPARTMENT OF DISENVIRONMENTAL HI	SEASE CONTROL AND EALTH	12	16	-4
PROFESSOR		1	4	-3
ASSOCIATE F	PROFESSOR	1	2	-1
SENIOR LECT	TURER	2	1	1
LECTURER		4	6	-2
ASSISTANT L	ECTURER	4	3	1

	ESTABISHMENT POSITIONS	FILLED	VACANT
DEPARTMENT OF EPIDEMIOLOGY AND BIOSTATISTICS	12	16	-4
PROFESSOR	1	2	-1
ASSOCIATE PROFESSOR	1	3	-2
SENIOR LECTURER	2	3	-1
LECTURER	4	7	-3
ASSISTANT LECTURER	4	1	3

	ESTABISHMENT POSITIONS	FILLED	VACANT
TMENT OF HEALTH POLICY PLANNING ANAGEMENT	10	10	0
PROFESSOR	1	1	0
ASSOCIATE PROFESSOR	1	3	-2
SENIOR LECTURER	2	3	-1
LECTURER	2	2	0
ASSISTANT LECTURER	4	1	3

		ESTABISHMENT POSITIONS	FILLED	VACANT
DEPARTMENT OF DENTISTRY		11	25	-10
	PROFESSOR	1	0	1
	ASSOCIATE PROFESSOR	1	3	-2
	SENIOR LECTURER	1	3	-2
	LECTURER	4	10	-6
	ASSISTANT LECTURER	4	5	-1
	PRINCIPAL DENTAL TECHNOLOGIST	0	4	

	ESTABISHMENT POSITIONS	FILLED	VACANT
DEPARTMENT OF NURSING	12	11	1
PROFESSOR	1	0	1
ASSOCIATE PROFESSOR	1	1	0
SENIOR LECTURER	2	4	-2
LECTURER	4	4	0
ASSISTANT LECTURER	4	2	2

		ESTABISHMENT POSITIONS	FILLED	VACANT
DEPARTMENT OF PHARMACY		15	19	-4
PROFE	SSOR	1	1	0
ASSOC	CIATE PROFESSOR	1	1	0
SENIO	R LECTURER	3	3	0
LECTU	JRER	6	12	-6
ASSIS ⁻	TANT LECTURER	4	2	2

3.2 Staff development: During the reporting period, MakCHS Human Resource Unit accomplished work as presented below.

a. Appointments

i. Four (4) staff were appointed into University Service as indicated in the table below:

No.	Name	Position	Department
1	Kizito Umaru	Assistant Lecturer	Dentistry
2	Jessica Lugeremi	Technician	Dentistry
3	Nsubuga Ronald	Assistant Lecturer	Paediatrics & Child Health
4	Amulen Phoebe Mary	Cancer Registrar	Pathology

ii. Two (2) staff were appointed Part-time Clinical Instructors

No.	Name	Position	Department/Unit
1	Lillian Kemigisha	Part-time Clinical Instructor	ENT
2	David Khaemba	Part-time Clinical Instructor	ENT

b. Contract Renewals

The following staff were subjected to interviews for renewal of contracts, however, they are under review by the Chief Engineer before they are appointed.

No.	Name	Position	Department/Unit
1	Biziringi Isaac	Driver	School of Medicine

c. Confirmation into Service

The following staff are awaiting AB decisions:

No.	Name	Position	Department
1	Dr. Kugonza Gonzaga	Assistant Lecturer	Dentistry
2	Dr. Mary Juliet Nannozi	Assistant Lecturer	Dentistry
3	Dr. Anah Bira Margaret	Assistant Lecturer	Dentistry
4	Dr. Moses Adroma	Assistant Lecturer	Obs &Gyn
5	Dr. Elizabeth Igaga Namugaya	Assistant Lecturer	Anaethesia
6	Dr. Phiona Bukirwa	Assistant Lecturer	Pathology
7	Dr. Paul Katongole	Assistant Lecturer	Medical microbiology
8	Dr. Andrew Kayondo	Assistant Lecturer	Disease control & Environmental Sciences

d. Promotions

The following staff applications for promotions have been handled at the College and submitted for consideration to the Appointments Board for decision:

No.	Name of staff	Position/rank recommended	Department
1	Dr. Othman Kakaire	Associate Professor	Obstetrics & Gynaecology
2	Dr.Fatumah Namusoke	Associate Professor	Obstetrics & Gynaecology
3	Dr. Josaphat K. Byamugisha	Professor	Obstetrics & Gynaecology
4	Dr. Rose Alenyo	Professor	Surgery
5	Dr. Damalie Nalwanga	Lecturer	Paediatrics &Child Health
6	Dr. Claire Rebecca Lusobya	Senior Lecturer	Ophthalmology
7	Dr. Immaculate Atukunda	Senior Lecturer	Ophthalmology
8	Dr. Herbert Kayiga	Senior Lecturer	Obstetrics & Gynaecology
9	Dr. Felix Raymond Odokonyero	Senior Lecturer	Psychiatry
10	Dr. Benon Asiimwe Byamugisha	Professor	Medical Microbiology
11	Dr. Hakim Sendagire	Senior Lecturer	Medical Microbiology
12	Dr. Margaret Lubwama	Senior Lecturer	Medical Microbiology
13	Dr. Paul Katongole	Lecturer	Medical Microbiology
14	Dr. Phiona Bukirwa	Lecturer	Pathology
15	Dr. Richard Mugambe	Senior Lecturer	Disease Control & Environment Health
16	Dr. John Bosco Isunju	Senior Lecturer	Disease Control & Environment Health
17	Dr. Biira Anah Margaret	Lecturer	Dentistry
18	Dr.Gonzaga Kugonza	Lecturer	Dentistry
19	Dr. Mary Juliet Nannozi	Lecturer	Dentistry

e. Resignations/Early Retirement

During the reporting period, the University Appointments Board has not accepted any resignations/early retirement for the year, 2023.

f. Adverts to replace staff who left (retired/resigned/died).

An advert with the closing date of 31st October, 2022 was run for positions as shown in the table below and the college shortlisted candidates at its meeting held on 6th June, 2023 to compete for the jobs at a later date.

	Department	Position
	School of Medicine	
1	Obstetrics & Gynecology	Assistant Lecturer (1)
2	Paediatrics & Child Health	Assistant Lecturer (1)
3	Internal Medicine	Assistant Lecturer (1)
4	Internal Medicine	Lecturer (2)

5	Internal Medicine	Principal Technician (1)
	School of Public Health	
6	Community Health & Behavioral Sciences	Lecturer (1)
7	Epidemiology & Biostatistics	Assistant Lecturer (1)
	School of Health Sciences	
8	Pharmacy	Assistant Lecturer (1)

3.3 Staff training for continuous professional and skills development

3.3.1 Administrative Staff Training



The College held a Training workshop for administrative staff on 8th June, 2023. The focus of the training was to refresh customer service skills of the administrative staff and to link the mission, vision and core values of the College to their roles. In her remarks, Prof. Nakanjako Damalie, Principal-MakCHS encourages each member of staff to reflect on their individual contribution to the college vision to become a leading institution for academic excellence and innovation in health sciences in Africa.



MakCHS Administrative Staff attending the training including registrars, administrators, finance, human resource and procurement teams

3.3.2 Training in Quality Assurance and gender mainstreaming:

The College of Health Sciences (CHS) organized a Quality Assurance (QA) training on Monday 19th June 2023. The purpose of this training was to promote a Quality Assurance culture in the College of Health Sciences, and create awareness on quality assurance mechanisms and practices among the Staff.

Among the facilitators invited were Dr. Cyprian Misinde (Director, Quality Assurance), who presented about the role of the Quality Assurance and Gender Committee, Dr. Kamba Pakoyo (Dean, School of Health Sciences), who represented the Principal, College of Health Sciences, Prof. Damalie Nakanjako and presented about the importance of Curriculum/programme review. Irene Rebecca Namatende presented about the status of Quality Assurance at CHS and QA benefits to teaching, learning, research, innovations and community service. Mr. Eric Tumwesigye presented about the goals of the Makerere University Gender Mainstreaming Programme and Dr. Henry Kajjumbula presented on quality assurance in laboratories.



The Lead facilitators: Director, Quality Assurance-Dr. Cyprian Misinde (Seated Centre), Dean, School of Health Sciences - Dr. Pakoyo F. Kamba (Seated 2nd Right), Irene Namatende (Standing 6th Right) together with the Members of the Quality Assurance and Gender Committee, plus other members of staff at the College of Health Sciences.

Recommendation s for Quality assurance and gender mainstreaming

- The Directorate of Gender Mainstreaming to put up breastfeeding center for Makerere University Women Staff.
- Continuous training and awareness of programme /curriculum review and development.
- Continuous engagement with the University Quality Assurance and gender mainstreaming directorates.
- Review and establish key performance indicators for all academic and nonacademic units to support monitoring and evaluation of our services to our key stakeholders who include students.
- 5. Conduct tracer studies to get feedback from our alumni and document their impact.

3.3.4 Academic Leaders Training:

The college of health sciences offered a series of leadership training sessions to all academic leaders including Deans, Heads of Departments and senior academic staff. A third session was held in June 2023 as a followon to session 1 and 2 that were held in 2021 and 2022; Dr Lydia Mpanga Sebuyira of Imprint (U) Ltd. This was the third session, continuing the theme of "Leadership Begins with Us", and focused on the concept "Extreme Ownership". The first session, held at Imperial Royale Hotel, Kampala and online in July 2021, was on the theme of "Leadership begins with Me", and through a series of diagnostic activities about the stage and function of the team, an action plan was generated. The second session was held in June 2022, on the theme "Leadership Begins with Us" focused on "Building Trust". The Leadership Sessions for the Leadership Team of MakCHS are intended to continue the college growth trajectory and meet the following overall objectives.

Training objectives:

 Strengthen the internal cohesion of the Leadership Team across the College which comprises up to 30 members of the College Management Team (Principal, Deputy Principal, Deans of the four Schools), the Department Chairs and Heads of Units. The Systemic Team Coaching (STC) Leadership

- Sessions are designed to enable the participants to discover their collective and individual potential and require the participants to be open and willing to work towards goals agreed with their coaches at the start of the process.
- Strengthen leadership and management competencies of individuals through online training



Professor Damalie Nakanjako (standing) giving opening remarks at the CHS leadership training for academic leaders



Leadership training for academic leaders at MakCHS

The Leadership Session 3 kicked off with opening remarks by Prof. Damalie Nakanjako, the Principal of MakCHS, welcoming all attendees and thanking them for keeping time. She introduced the facilitators, Prof. Damalie Nakanjako listed the participants, comprised of the different Heads of Department, Deans, Heads of different units, Professors and Assoc. Professors who are all leaders at their different levels. Prof. Nakanjako then reminded all attendees about the vision, mission, and core values of the College. In line with this, each participant was asked how they interpret the different core values, and she emphasized the importance of working towards the College's vision, mission, core values and how everyone's contributions were critical in achieving these goals. The principal concluded with a refective question to all the academic leaders, "Do we need to tell our story better or have a better story to tell?"

The team was then divided into five (5) groups to discuss the concept of decisiveness amid uncertainty, using a case scenario based on a University College with issues like those of MakCHS. They were required to provide key lessons learned from the scenario, and the strategic choices they would make as the MakCHS Leadership.



Some of CHS academic leaders attending a leadership training in June 2023: Head of Department of Family Medicine, Dr Onyango, Health of Department of Radiology and Radiotherapy, Dr Nassanga, Assoc. Prof Irene Andia -Biraro and Assoc. Prof Nakalembe

Way forward: The MakCHS team committed to continuing to work on the Action Plan developed in June 2021, to continue to grow Trust, and the other areas of focus discussed in the third leadership session. The next session is planned to take place in three to six months' time.

Participatory leadership training of MakCHS academic leaderirs









TEACHING AND LEARNING ACHIEVEMENTS

4.0 TEACHING AND LEARNING ACHIEVEMENTS

4.1 Presentation of Graduates for conferment of degrees at the 73rd Graduation Ceremony of Makerere University

The College of Health Sciences (MakCHS) presented a total of 460 Bachelors' degree graduates (Table 1a) and 328 graduate trainees (Table 1b) i.e., 17 PhD, 310 Masters and 452 Bachelors graduates for conferment of degrees at the 73rd Graduation Ceremony of Makerere University held on 13th – 17th February 2023. Up to 42% of CHS graduands were graduate students (Table 1b). However, 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.



A cross-section of Bachelor of Medicine and Bachelor of Surgery taking the Hippocratic oath in the congregation of the 73rd graduation ceremony

A breakdown of the graduates is presented in the table 4 below.

Table 4: Graduates presented by MakCHS at the 73rd Graduation of Makerere University

PROGRAMME	FEMALE	MALE	TOTAL	
PhD	8	9	17	
MASTERS				
Master of Medicine	40	52	92	
MSc. Clinical Epidemiology &Biostatistics	9	14	23	
MSc. Health Professions Education	2	2	4	
MSc. Immunology & Clinical Microbiology	12	7	19	
MSc. Pharmacology	2	3	5	
MSc. Physiology	1	2	3	
MSc. Health Bioethics	1	0	1	
MSc. Bioinformatics	7	12	19	
MSc. Human Anatomy	1	0	1	
MSc. Public Health	39	45	84	
MSc. Biostatistics	2	2	4	
MSc. Public Health Disaster Management	1	4	5	
MSc. Public Health Nutrition	7	4	11	
MSc. Health Informatics	1	5	6	
MSc. Health Services Research	5	7	12	
MSc. Public Health (Monitoring & Evaluation)	1	0	1	
MSc. Nursing, Midwifery & Women's Health	7	0	7	
MSc. Pharmaceuticals & Health Supplies Management	6	4	10	
MSc. Pharmacognosy	0	3	3	
Sub-Total	144	166	310	
BACHELORS				
Bachelor of Cytotechnology	8	11	19	
Bachelor of Dental Surgery	12	20	32	
Bachelor of Environmental Health Sciences	21	23	44	
Bachelor of Medicine and Bachelor of Surgery	37	114	151	
Bachelor of Optometry	3	13	16	
Bachelor of Pharmacy	12	43	55	
Bachelor of Science in Biomedical Engineering	8	17	25	
Bachelor of Science in Biomedical Sciences	11	32	43	
Bachelor of Science in Dental Technology	1	1	2	
Bachelor of Science in Medical Radiography	11	26	37	
Bachelor of Science in Nursing	11	8	19	
Bachelor of Science in Speech & Language Therapy	3	6	9	
Sub-Total	138	314	452	
Grand Total (PhD+Masters+Bachelors)	779			



MakCHS PhD graduates in the congregation at the 73rd Graduation Ceremony of Makerere University

Doctoral students researched on a wide range of research topics in various fields of infectious diseases, maternal and child health, gene polymorphism and forensic dentistry; among others (as shown by the research titles in Table 5 below).

Table 5: Research topics of the PhD Graduates presented by MakCHS at the 73rd Graduation

No.	Name	Research Title
1	ACEN Ester Lilian	Effect of vitamin D binding protein gene polymorphisms and vitamin D bioavailability on cathelicidin expression in tuberculosis infection and disease
2	Ayebare Elizabeth	Birth Asphyxia in Northern Uganda: associated factors, intrapartum care practices and the predictive value of umbilical artery lactate
3	JADWIGA Nowak	Evaluation of The Efficacy and Safety of Combining Carica Papaya Linn, Vernonia Amygdalina Delile, Artemisinin and Iodine as Potential Agents in The Management of Breast Cancer
4	MWANGA Juliet	Quality of Care for Common Childhood Infections in Low Level Private Health Facilities in Mbarara District, Western Uganda
5	EKWARO Obuku	Production and use of Postgraduate students' research to inform health policies: a multiple methods study of universities in Uganda & other low & middle income countries
6	KATONGOLE Paul	Role of the Gut microbiome in Prostate cancer disease pathogenesis
7	ZAWEDE Stella	Developing A Theory Informed Intervention to Improve Linkage to Treatment for Patients Diagnosed with Tuberculosis Using XpertMtb/ Rif Testing in Central and Eastern Uganda.

No.	Name	Research Title
8	SSEREMBA Emmanuel	Hepatitis B in Uganda: Transmission and prevention strategies among infants and HIV- infected Adults
9	ONGOLO-Zogo Pierre	Evaluating Initiatives to Support Evidence-Informed Health System Policy-making in Cameroon and Uganda: Case Studies of EVIPNet Cameroon and REACH-PI Uganda
10	OKURUT Samuel	B-cell Responses, Immune Modulation, and Survival Among Patients with HIV-Associated Cryptococcal Meningitis
11	NANTEZA Barbara Marjorie	Correlates of Safe Male Circumcision uptake in Gulu District, Mid northern Uganda
12	MWESIGWA Savannah	Whole Exome Sequencing Uncovers Genetic Predisposition to Pediatric HIV Disease Progression and Hyperhemolysis Syndrome
13	MUTATINA Boniface	Feasibility of a One-stop- shop for Evidence to Support Health Policy making in Uganda
14	MUHINDO Richard	Regular STI and HIV screening intentions and practices among sex workers in Uganda: the effect of text message reminders and peer education
15	LANYERO Hindum	Monitoring antibacterial use in children under five years in rural communities of northern Uganda
16	KWIZERA Richard	Aspergillus sensitization and asthma in Uganda
17	KUTESA Annet	Forensic age estimation based on third molar eruption and development for Ugandan adolescents and young girls



One of the PhD graduates presented by MakCHS is Dr. Annet Kutesa, a Senior Lecturer and Dean-School of Dentistry, College of Health Sciences, Makerere University (MakCHS). The School of Dentistry formerly the Department of Dentistry is the largest in Uganda; it was elevated to school status in 2022 making it the newest School of MakCHS, in addition to the School of Medicine, School of Public Health, School of Health Sciences, and the School of Biomedical Sciences.

Award of the Honorary Doctorate of Science

Professor Christopher Curtis Whalen from the University of Georgia, U.S.A was awarded the Honorary Doctorate of Science in recognition of his contribution to health research and capacity building of Uganda, Makerere University and the College of Health Sciences. The orator, Professor Moses Joloba, noted that Professor Whalen has garnered over \$90million for research in Uganda.

Medical quiz, organized by the medical students' association (MUMSA) at the Physiology Lecture Theatre

Student-centered learning activities at MakCHS allow students to actively participate in their learning individuals and cooperately



Professor Christopher Curtis Whalen

Dr. Christopher Whalen is the Karen and Jim Holbrook Professor of Global Health and Distinguished Research Professor at the University of Georgia where he is the director of the Global Health Institute in the College of Public Health. He is a physician-scientist who has devoted his career to the control of infectious diseases in low- and middle-income countries, especially tuberculosis and HIV infection in Uganda. Professor Whalen first began working in Uganda in 1991 as a junior member of the Uganda-Case Western Reserve Research Collaboration where he worked with his Ugandan colleagues at Makerere University to develop a multi-disciplinary scientific agenda for research on HIV and tuberculosis in Uganda. From his early studies on the treatment and prevention of HIV/TB, he expanded the scope of his research over time to study M. tuberculosis transmission as the underlying reason why tuberculosis persists in sub-Saharan Africa today. Across his 30-year partnership with Makerere University, he has helped to garner approximately \$90 million for research in Uganda, with most of it through Makerere University.

4.2 Community Based Education, Services and Research (COBERS) Tutor Training at the College of Health Sciences

MakCHS hosted tutors from 60 Community Based Education, Services and Research (COBERS) sites together with the MakCHS COBERS tutors for a training and meeting on the 18th February 2023. The COBERS sites are health centres and hospitals in districts which host Makerere Medical students for community internship program where students go to the districts to experience health care in the communities they serve. After over a decade of running the program, many site tutors had expressed the need for a training to review and strengthen the COBERS training processes, including student supervision, assessment, monitoring and evaluate as well as appreciation of the participating sites.



Group photo of the MakCHS staff with COBERS tutors from up 60 districts in Uganda where CHS students train in the community

At the training, an overview of the COBERS programme was discussed in order to identify areas that require review for better training output for the students. Professionalism and ethics; Supervision from faculty perspective and tools use; Assessment methods; Community activities; and Monitoring and Evaluation are some of the topics covered. Certificates were issued to the site tutors after the training.



All COBERS participating sites received certificates of appreciation from Makerere University: L-R: Professor Damalie Nakanjako, Principal – MakCHS; Professor Annet Nakimuli, Dean – School of Medicine; and Professor Nelson Sewankambo, Professor Emeritus and former Principal – MakCHS handover a certificate of appreciation to a COBERS tutor.

4.3 Student participation in the medical quiz,

Organized by the Makerere University Medical Students' Association (MUMSA) at the College of Health Sciences, Physiology lecture theatre.



Winners of medical quiz student at Physiology Lecture theatre

Medical students quiz hosted in Physiology Lecture Theatre

Medical quiz, organized by the medical students' association (MUMSA) at the Physiology Lecture Theatre Student-centered learning activities at MakCHS allow students to actively participate in their learning individuals and cooperately

MEDICAL STUDENTS FINALISTS DINNER

The Makerere University Medical Students Association (MUMSA) held their finalists' dinner at Pearl Hotel, Kampala on the 18th June 2023. The College contributed funds to the preparations. On behalf of the students, the Chairperson of the Organising Committee, Okodoi Emmanuel Oguti expressed thanks for the contribution, he said 'we are very grateful to the Office of the Principal for the support rendered to us during the dinner, the funds were used for decoration of the venue which gave the dinner a magnificent look'.



Finalists at the Makerere University Medical Students Association (MUMSA)



Student -led white coat ceremony which is part of the student-led peer orientation activities at the college of health sciences.

4.4 Graduate training activities

4.4.1 Information Literacy Training for Doctoral Students

In order to further support research at MakCHS, a cross-cutting course on information literacy for doctoral students was mountedat the College; Led by Dr Alison Kinengyere. The training, supported by the Brain Health project

was conducted for 2 cohorts as follows: Cohort 1 sessions were conducted on 17th and 20th March 2023, while Cohort 2 sessions were conducted on 23rd and 24th March 2023.



Doctoral students receive certificates for a cross-cutting course that was hosted at the CHS PhD lounge



College Of Health Science students at an orientation and mentorship activity dapped, "white coat" ceremony. Dr Sabrina Bakeera-Kitaka and Mr Bruce Twesigye the Registrar togther with the students



Principal Prof Damalie Nakanjako hosting college of Health Science Student leaders in her office



Group photo: Trainees, trainers of the Information Literacy training for PhD students at the MAkCHS PhD Lounge



Students mentoring session together with student leaders and faculty (Drs Ivan Kimuli, Sabrina Bakeera-Kitaka, Mr Bruce Twesigye together with the College students' Chairman and all students at Davis Lecture Theatre

The training was aimed at building the capacity of doctoral students to:

- comprehensively search for literature relevant to their research topics
- 2. properly cite & generate references in a recommended output style
- 3. run plagiarism checks of their research reports and interpret plagiarism reports
- 4. make effective presentations of their research findings using the PowerPoint program
- 5. submit their research output into the Makerere University Institutional Repository (MakIR).

4.4.2 Laboratory training for PhD and post-doctoral trainees (from the attachment)

The training was attended by 40 doctoral students, at various stages of their PhD journey. Cohort 1 had 21 students while Cohort 2 had 19 students. The Figure below shows attendance by specialty, with the biggest attendance from the Department of Bioinformatics.



Dr. Alison Kinengyere (L), College Librarian - MakCHS handing a certificate to a trainee

4.4.3 Training of PhD and post-doctoral Scientists in the translational laboratory on how to use the newly installed cell-sorter that was acquired through a collaborative research program on HIV cure in collaboration with the Research Enterprise to Advance a Cure for HIV (REACH).





The Principal, who also leads the cluster of excellence in translational science in Infection, Immunity and Inflammation research participated in the training that was conducted by Lasec, the manufactures of the equipment.

4.5 Academic mobility of students and faculty:

MakCHS embraces internationalization of health professionals' education and employs academic mobility, collaborative research, use of external examiners and others as internationalization strategies.

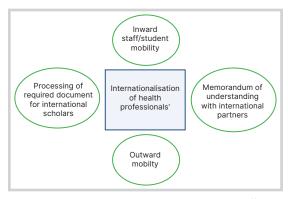
Academic mobility at MakCHS

The international coordination office was established to provide technical and administrative support to students, lecturers and staff coming to MakCHS and travelling to other countries. Most of the internationalization has been through partnerships with other higher

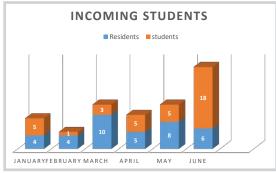
institutions of learning around the world and the international coordination office coordinates most of these activities in liaison with Deans, Faculty and partners abroad.

Long term mobility programmes: The office has supported international students admitted for degree programmes and faculty to acquire students' visa, dependence visa for family members especially for graduate students. Short-term mobility This involved incoming international scholars and outgoing st udents and staff from MakCHS

4.5.1 Inward academic mobility: During the period January to Decenber 2023, there has been a steady flow of scholars to MakCHS. Most of the scholars were from United States of America (N=45). John Peter Smith one of the partners with College of Health Sciences sent the highest number of scholars during that period followed by Minnesota University, Duke University. Other sending institutions partnering with MakCHS were Alberta University, Western University Canada; From Europe, Karolinska Institutet sent the highest number of students followed by Charite University (N=4) in German. Alberta University (=3) and Western University (N=8)



Activities coordinated by the college international Office hosted under the Principal's office



Summary of incoming international scholars per month

Some of the mobilities were student-initiated from the University of South Wales, Australia (N=1), Gothe University, Germany (N=1), Tulane University (N=1), Austal University Hospital, Argentina, Birmingham University (N=1) and Barts and London were institutions from Britain.

Rotations Undertaken: Whereas most scholars undertake rotations in more than one (1) discipline, most attended Department was Obstetrics and Gynaecology where all residents and fellows undertook rotations. Other students undertook rotations in Internal Medicine, with emergency medicine being the most attended unit, followed by Infectious Diseases Unt. Other students undertook rotations in Paediatrics, Anaesthesia, Surgery, and Orthopaedics.



Dr. Paul Strickland extreme right and others with Director Kawempe Hospital

4.5.2 Outward mobility; students 'Rotations abroad

Selection of students: The internationalization committee conducted interviews for selections of students for placements abroad 18 students were selected as detailed below, most of these were male students (N=12, 75%) because they are had higher CGPA which was used as a basis and perfomed well at the oral interview.

The students' rotations are done within the framework of student/teacher exchange programme that exists between MakCHS and international partners through which they apply for mobility grants to facilitate the mobility of scholars.

As indicated in the table below, most of the rotations abroad were funded by Erasmus Mundus Plus which is an academic mobility grant that was instituted by the European Union for students from across the globe to study in Universities in Europe. Other rotations will be facilitated by partner institution that is Yale University, Northwestern University and Cambridge and MakCHS.

Most of the selected students (77%, N=14) were able to undertake rotations abroad during the reporting period, as shown table 6.

Table 6: List of students that passed interviews to participate in the college student mobility program in 2023

	Name	Institution	Funding institution
1	Hadadi ssebagala	Karolinska Institutet, Sweden	Linneas Palme
2	Nakamya Imelda An	Karolinska Institutet, Sweden	Linneas Palme
3	Waswa Vicent	Graz University, Austria.	Erasmus Mundus
4	Agaba Jim Patrick	Graz University, Austria.	Erasmus Mundus
5.	Mubiru S. Edward	Graz University, Austria.	Erasmus Mundus
6	Marvin Kirya	Yale University, U.S.A	MakCHS/Yale
7	Lukwago charles	Yale University, U.S.A	MakCHS/Yale
8	Kazindo Emmanuel	Yale University, U.S.A	MakCHS/Yale
9	Nampiga Maria G	Yale University, U.S.A	MakCHS/Yale
10	Maureen Namugaya	Magna University, Italy	Erasmus Mundus
11	Galabuzi B Patrick	Magna University, Italy	Erasmus Mundus Plus
12	Godfrey Natseli	Northwestern, U.S.A	Northwestern/MakCHS

13	Samuel G. sserubogo	Northwestern, U.S.A	Northwestern/MakCHS
14	Obwol Tonny Walter	Des Moines University, U.S.A	Student
15	Twasiga wilson	Des Moines University, U.S.A	Student
16	Nakibirango Yvone	Cambridge University, U.K	Cambridge
17	Nakaye stella	Cambridge University, U.K	Cambridge
18	Denise Kalungi	Des Moines University, U.S.A	

Rotation at Magna University, Italy: Two students (Galabuzi Patrick and Maureen Namugaya) were able to undertake a rotation abroad for the period between 1st March, 2023 and 26th May 2023. This period was spent at Magna Graecia University and the teaching hospital Azienda Ospedaliero Universitario, Mater Domini.

According to Patrick, "This was one of the most insightful, and crucial experiences in my academic journey thus far, basing on the fact that I learnt a lot about practice in a resource rich setting to prepare me for the future real-world work".

The students were involved in academic activities like ward rounds, presentation at seminars, clinical clerkship, observing surgeries in the operating room and managing COVID-19 patients. During presentation in seminars, the students were required to make presentations about selected topics like HIV, and other common infectious diseases like meningitis; this provided an opportunity to share knowledge about presentation and management of infectious diseases in resource limited and resource rich settings.in addition to that, the students were able to observeesurgeries using advanced techniques like laser therapy.



Figure 1: Patrick Baluku , second left, Maureen in Maroon scrubs with other students, Magna

The students were involved in social activities like tours around Italy; they visited Rome, the Vatican, tropea city Sila, Le Catella, Crotone, among other places. These enabled them to understand culture of Italian people.

Rotations at Karolinska Institutet: Makerere University and Karolinska Institutet have had a bilateral student exchange partnership for a long time. Two students (Hadad Sebagal and Imelda Nakamya) undertook at Karolinska Institutut and two students from Karolinska institute (Gustaf and Elsa) undertook a rotation at Makerere University. The students had clinical rotations in Karolinska university hospital is located in the north of Stockholm in Solna municipality Sweden. This is one of the teaching hospitals for Karolinska University, school of medicine and school of health sciences. The hospital, serves as a referral for complex cases from region Stockholm but also from other regions in Sweden. It also receives patients from the nearby countries. It provides services ranging from self referral to complex the students were involved in several activities like;



Ward rounds: This was mostly done at the antenatal ward and the student could move with a team of doctors including a specialist through all the antenatal patients. A student could always make submissions, respond to questions from the doctors and attain reading topics for their SDL.

Surgeries: These ranged from elective caesarean deliveries to complex gynaecology procedures like pelvic exenteration and vaginectomy and emergency obstetrics procedures. The student were required to scrub, gown and glove in order to be in the sterile environment.



Medical students at MakCHS Imelda Nakamya and Sebagala Hadad during their rotation in KI, Sweden

Hadad and Imelda had this to say "This was very educative and it was through these observerships that information and knowledge on proper patient care and management was attained.

It was a great opportunity to have a part of our clinical practice in Sweden particularly the new Karolinska hospital Solna, a specialised teaching hospital. Most of our oobjectives were met and a this was coupled with exposure in practicing medicine in a resource rich setting. Conclusively, this rotation has a shone such a bright light on our future career aspirations and we would like to convey our utmost gratitude to Makerere University, College of Health Sciences and Karolinska Institutet for providing us with such a great opportunity and above all the Al mighty for seeing us through and making it possible"

4.5.3 Student participation in Global Health Competition

During the period, 4 students (Elizabeth Nakiyingi Kiyingi 5th year medical student, Belize Chemutai 5th year medical student, Sulaiman Bugosera Wasukira 2nd year students at school of public health and Abila Derick) participated in the Emory Morning Side Global health competition in Atlanta, Georgia. This competition took place from 13th to 19th March 2023.

The Emory Morningside Global Health Case Competition brings together students from diverse disciplines and multiple countries to address a real-world global health challenge. The 2023 competition took place from March 10 to 18, 2023, in Atlanta, Georgia, USA. Student teams had one week to develop comprehensive case solutions to a hypothetical but realistic global health challenge. The teams then presented their case solutions to an external panel of judges on competition day.



Sulaiman Bugosera, Elizabeth Nakiyingi and Beliza Chemutai attending the Emory Morningside Global Health Case Competition in USA

Chemutai summaries the experience; "we gained skills in critically analysing global health problems within our setting and develop solutions aimed at controlling these challenges. In addition, we created networks with fellow students from universities that participated in the competition with prospects for further collaboration in Global Health programs and acquired new mentors from Emory University who are willing to guide us through our careers in global health and clinical practice".

4.5.4 Outgoing Staff mobility from MakCHS to Magna University, Italy.

Prof. Pauline Byakika had a visiting teacher programme at Magna University in Italy during the month of April. She was involved in training of students at both undergraduate level and graduate level



Prof. Byakika (4th from left, Prof. Carlo Torti 4th from right during staff exchange at Magna University, Italy

4.5.5 Outgoing staff: staff week at Graz Medical University

In order to broaden academic mobility of staff and students, Makerere University College of Health Sciences with Medical University of Graz in Austria jointly applied and received funding from the Erasmus plus. The first cohort of outgoing staff mobility took 8th May to 12th May 2023 at Med Uni Graz under the theme **staff week**. The programme was organized and coordinated by the international office of Med Uni Graz which comprised of eleven (11) staff.

Participants were from 23 universities and 16 diffe rent nationalities. The programme comprised of lecture sessions and site visits. All thirtythree participants were granted opportunity to share their practices and experiences in internationalizing medical education, research and administration. There was effort to strengthen existing cooperations and laying foundation for establishing new partnerships. Social activities and an excursion were given to participants and they experienced the beauty of the city of Graz. Three staff from MakCHS attended the staff week that is Ms. Susan Nassaka Byekwaso, International Coordinator, Norah Namirembe and Dr. Innocent Besigye Department of Family Medicine.

Some of the Tours included of the center for medical research unit, Library, Campus, the Clinical Skills center and Tour of bio bank. In addition to the University tour, staff visited to the Zotter chocolate factory and the Eggenberg castle among others.

Norah summarized the staff week "The experience: It was overwhelmingly fascinating. Everyone at Med Uni Graz was very welcoming and always ready to support should there be any challenges arising. The weather was a little bit favourable for students and staff who will be travelling around that time of the year to Austria.



Norah Namirembe from MakCHS international office at the skills laboratory, Graz University

Language: Almost everyone knew some English as a means of communication especially at the university and teaching hospital. For marking written in German, an English translation always followed. However, a student or staff is advised to at least learn some basic German for language security purposes. This is because German is the national language for Austria.

Food: The dishes in Austria around all eating places was the same. I observed that they eat a lot of meats, salads, and soups. The taste was always as good as that back in Uganda. One would feel really at home when they had meals in Austria because at least everyone had something to choose from their menu. In addition to this, they as well prepared internationally recognized foods like Indian food, Italian food, and snacks, among others. It was so nice to try the different menus".



Susan Nassaka (standing) with other participants



Norah Namirembe (in blue) from MakCHS international office with other participants having a tour of the Graz University

4.5.6 The Federation of African Medical Students' Associations (FAMSA) participated in the 73rd World Health Organusation (WHO) Regional Committee for Africa in Botswana, held from 28 August to 1 September 2023 at the Gaborone International Conference Centre

FAMSA was represented by three delegates led by Banturaki Davis, the president of the Makerere University Medical Students Association (MUMSA, Uganda), Monicah Kitonga (MSAMU, Kenya), and Abdulhammed Babatunde (UIMSA, Nigeria)



The 73rd Regional Committee was another annual opportunity for FAMSA as a medical student-led, non-state actor to represent medical students' views on the priorities of WHO/AFRO as she reflects on the progress, challenges, and public health priorities across 47 Member States of the WHO African Region,

at a special occasion as WHO marks **75 years** of existence as a leading health organization in Africa and globally.

The WHO Regional Director, Dr. Matshidiso, expressed a strong interest in collaborating with medical students. FAMSA also welcomed the South-South Collaboration discussion, An initiative that holds a promise of enhancing and strategically advancing medical students as well as health workers' exchange programs, to more enriching experiences, and promoting valuable cross-regional partnerships.

4.5.7 MakCHS student and faculty participation at Consortium of Universities for Global Health (CUGH) annual meeting in Washington D 14-16th PRIL 2023

The CUGH Conference is an annual conference that is hosted by the Consortium of Universities for Global Health (CUGH) and partners i.e., universities and non-governmental organizations (NGOs). Over the past 13 editions of the conference, it has been hosted in various states within the USA and hosted by 2 institutions of higher learning. Makerere University College of Health Sciences subscribes to CUGH annually and was one of the co-hosts for the 2023 CUGH meeting; under the theme, "Global Health at a Crossroads: Equity, Climate Change, and Microbial Threats". The themes of the conference change every year but are usually within the current topics and areas of interest in the field of global health. Attendees are inspired and challenged to learn new skills, gain new contacts, and find ways to improve the health of people and the planet.



Prof Damalie Nakanjako, Dr Henry Kajumbula from Makerere University College of Health Sciences and collaborators Paul I Kadetz from Institute for Global Health and Development, Queen Margaret University, UK and Michael Frimpong from Kumasi Centre for Collaborative Research in Tropical Medicine hosted a panel on addressing the emerging global burden of antimicrobial resistance using the One Health approach, at the 14th Annual conference of the Consortium of Universities for Global Health CUGH in April 2023



Th 14th Annual conference of the Consortium of Universities for Global Health CUGH in April 2023 was graced by other MakCHS facultity including Prof Sarah Kiguli leading the Health Professions Education Initiative at MakCHS and Prof Elsie Malwadde from the African Centre for Global Health and Societal Transformation (ACHEST)

The conference subthemes were:

- Addressing the Social Determinants of Health
- Pandemic Prevention, Covid-19, Emerging Infectious Diseases, and Other Communicable Diseases
- Planetary Health, One Health, Environmental Health, Climate Change, Biodiversity Crisis, Pollution
- Decolonizing Reforming Global Health, Equity, Justice, Global Health Education, and Research
- Translation and Implementation Science, High Impact Development Initiatives, Bridging Research to Policy, Innovation, and Research
- Politics, Governance, Diplomacy, Law, Corruption, Human Rights, Strengthening Public Institutions
- Non-Communicable Diseases, Health Systems, Public Health, Primary, and Surgical Care

Several students and staff from Makerere University college of health sciences attended the conference. Derick Abila in his own words "During the session on Decolonizing -Reforming GH, Equity, Justice, GH Education, and Research I presented an oral abstract on the social economic inequalities in access to cervical cancer screening among women living with HIV in low- and middle-income countries (LMICs). This session was on Day Three of the conference (Sunday, April 16, 2023).and I was able to present the poster for another student Daniel who was not able to get visa to United states of America. The poster was sharing the experience of how health professional students can contribute to global health activities and apply what they have learned in their surrounding communities through participation in medical camps. This session was on Day Three of the conference (Saturday, April 15, 2023). Amongst other meeting attended, the Principal MakCHS met with the MakCHS students and Ms Wendi Cuscina who coordinates the NUVANCE collaboration with MakCHS in Connecticut, US





Picture on the right: Professor Damalie Nakanjako, Principal MakCHS, Derrick Abila medical student and Ms Wendi Cuscina form the NUVANCE -MakCHS collaboration met at the 2023 CUGH meeting in meeting to discuss the faculty-student mobility program

Ruggles scholarship to support mental health: After 3 years of study, the first cohort of Ruggles scholars graduated in February 2023; supported by Prof. Rudy Ruggles from NUVANCE Health one of international partners with Makerere University College of Health sciences. This is to enhance capacity for mental health at Makerere and in Uganda. The students have had periodical sessions through which they were advised by Faculty from both NUVANCE health/ University of Vermont and Makerere University and Prof. Rudy himself. The programme now has 5 students under the Department of Psychiatry 2 in 3rd year and 3 in their 2nd year of study.



Dr. Claire Kwagala sponsored by Prof. Rudy Ruggles and the NUVANCE Health-MAKCHS collaboration graduated



Dr. Blessed Tabitha Aujo; sponsored by Prof. Rudy Ruggles and the NUVANCE Health-MAKCHS collaboration graduated



Dr. Jackie Kalungi; Sponsored by Prof. Rudy Ruggles and the NUVANCE Health-MAKCHS collaboration graduated

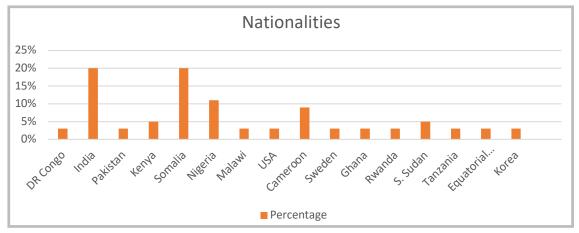
In conjunction with psychiatry Department in University of Vermont, the Psychiatry Department at Makerere University were able to conduct interview and select the 3rd cohort of Ruggles scholars. Ranga Daniel, Nanvuma Martina and Okwir Olivia will receive tuition fees for the study a Makerere for their second and third year of study.

Visa application for long term student mobility; Degree mobility

Through centralized visa applications, the international coordination office processed received thirty-five (35) students from sixteen (16) countries: The Democratic Republic of Congo, India, Pakistan, Kenya, Somali, Nigeria, Malawi, The United States of America, Cameroon, Sweden, Ghana, Rwanda, South Sudan, The United Republic of Tanzania, Equatorial Guinea,

and The Republic of Korea. The greatest number of applicants were from Somalia (N=7) 20% and India (N=7) 20%. This was followed by (N=4) 11% of the applicants from Nigeria, (N=3) 9% of the applicants from Cameroon, (N=2) 5% of the applicants from Kenya and (N=2) 5% of the applicants from South Sudan.

The least number of applicants were received from The Democratic Republic of Congo (N=1) 3%, Pakistan (N=1) 3%, Malawi (N=1) 3%, The United States of America (N=1) 3%, Sweden (N=1) 3%, Ghana (N=1) 3%, Rwanda (N=1) 3%, The United Republic of Tanzania (N=1) 3%, Equatorial Guinea (N=1) 3%, and The Republic of Korea (N=1) 3%. During the Academic year 2022/2023, it has been observed as the period with the most number of nationalities. Somalia as from the previous rankings has the highest visa applicants, followed by India.



Summary of Applicant Origin of incoming students to the MakCHS student mobility program

4.5.8 Clinical subspeciality training at MakCHS

In response to the societal needs for specialized health care services, MakCHS has expanded the scope of sub-specialty training at the respective collaborating sites (Mulago Hospital, National Women and Neonatal Specialized Hospital, Kawempe Hospital, Uganda Cancer Institute). Expansion of local opportunities for subspecialty training and services provides these services which many Ugandans seek abroad. Uganda Medical and Dental Practitioners Council inspected the sites at CHS to accredit subspecialty training in Pediatric Hemato-oncolology, Neonatology and Interventional radiology; among others.

These efforts have also expanded opportunities for specialist trainees on the Medical Doctorate in Medical Practice (MD), a clinical specialty program offered by Makerere University.

In the Pictures- The Registrar, Uganda Medical and Dental Practitioners Council Dr Ivan Kisuule together with a Visiting Neonatologist Dr Were and Professor Sarah Kiguli, during the accreditation visit for Neonatology specialty training.







Uganda Medical and Dental Practitioners, Council Members led by the Registrar Dr. Ivan Kizule, Prof. Sarah Kiguli and Dr. Were Neonatologist, University of Nairobi) visiting Makerere University college of health sciences to accredit speciality training in Perinatal care and Neolology

RESEARCH AND INNOVATION ACHIEVEMENTS

5.0 RESEARCH AND INNOVATION ACHIEVEMENTS

5.1 Review of the MakCHS research Agenda

Over the last decade, Makerere University College of Health Sciences (MakCHS) implemented the 2011 research agenda and it was timely to review it after a decade of implementation. The 2011 research agenda was reviewed through a mixed methods consultative review that included an online survey, in-depth interviews and stakeholders' meetings with several stakeholders to evaluate performance of the 2011 research agenda and provide recommendations for new 2023-2040 research agenda. The output was the 2023-2040 research agenda that was discussed and approved by the College academic board.



Principal MakCHS to giving her remarks at the physical research agenda review at meeting in March 2023

The workshop was also attended by the Director-Research & Graduate Training (DRGT), Makerere University; Professor Edward Bbaale, who commended MakCHS for undertaking the process especially as a University has chosen to become research-led. The Director DRGD encouraged MakCHS that having a research agenda responsive to the emerging societal needs will keep them on tracker as leaders in research for impact in the country and globally.

All the departments and schools at the college were represented in the brainstorming process and prioritization of the research priorities of the respective departments

Participatory review of the 2011 research agenda to develop the 2023-2040 research agenda











Makerere University College of Health Sciences Faculty attending a participations Review of 2021 research agenda to develop 2023 - 2024 research Agenda

No.	Thematic Areas for 2011 Research Agenda in Order of Priority	Thematic Areas for 2023 Research Agenda in Order of Priority
1	Infectious and communicable diseases (including HIV, TB and malaria)	Infectious Diseases and Neglected Tropical Diseases (using the One Health approach)
2	Maternal, Adolescent and Child health, sexual and reproductive health	Translational Science and Biomedical Research & Discovery & Genetic research (including pre-clinical studies, product development & commercialization)
3	Health systems research	Population Health, Climate change, health systems research, urbanization & health, pollution
4	Professionalism, health professional education, ethics and medico-legal	Non-Communicable Diseases
5	Non-communicable diseases	Maternal, child and adolescent health, Sexuality research
6	Professionalism, health professional education, ethics and medico-legal	Mental Health
7		Digital Health, Artificial Intelligence and Big Data applications
8		Professionalism, health professional education, ethics and medico-legal

*Multi-disciplinary (including socio-behavioral studies), multi-sectoral and collaborative approach to research including a One Health approach to integrate the human-animal-environment interface are highly recommended for optimal implementation of the MakCHS research agenda 2023-2040 to contribute to progress towards the national development plan and the sustainable development goals.

5.2 MakCHS received an award to lead the ADAPT One Health;

Network (https://adaptonehealth.net/) that brings together seven African academic institutions: National Institute for Biomedical Research, in the Demographic Republic of the Congo, Centre for Innovative Drug Development & Therapeutic Trials for Africa (CDT-Africa) in Ethiopia, Institut Pasteur de Dakar (IPD), Senegal, Kumasi Center for Collaborative Research in Tropical Medicine (KCCR), Ghana, University of Ibadan (UI), Nigeria, University of Khartoum (UofK), Makerere University College of Veterinary Medicine, Animal Resources and Biosecurity (MAK-COVAB), Uganda and Makerere University College of Health Sciences (Mak-CHS), Uganda.

5.3 Building Capacity for Sustainable Antimicrobial Stewardship Across Sub-Saharan Africa:

MakCHS hosted a panel on "Building Capacity for Sustainable Antimicrobial Stewardship Across Sub-Saharan Africa" at the 14th Annual conference of the Consortium of Universities for Global Health (CUGH) that was held 14th-16th April 2023 in Washington DC. The session was moderated by Prof Damalie Nakanjako and Dr. Henry Kajumbula Department of Microbiology was one of the speakers, together with Dr Michael Frimpong from Ghana and Paul Kadetz from the United Kingdom.



Makerere University College of Health Sciences hosted a session at day two of the conference. The session shared the work of the ADAPT network whose mission is to build the capacity across seven Sub-Saharan African countries for the improved management of AMR and antimicrobial stewardship, using a One Health approach in partnership with state, local, and regional stakeholders.

5.4 Representation at the Science Summit UN General Assembly (SSUNGA) 2023:

The directors of the ADAPT One Health network, Damalie Nakanjako, Professor university and Professor Uwe Truyen, Leipzig University, Germany presented the network activities and participated as panelists at the SSUNGA) 2023 in New York, USA. In addition, both directors participated in the Research Networks for Health Innovations in Sub-Saharan Africa (RHISSA) satellite meeting for all RHISSA programs that are aimed to mprove the health situation of people in sub-Saharan Africa through close African-German cooperation in health research. One of the central initiatives for such a cooperation is RHISSA - the "Research Networks for Health Innovations in Sub-Saharan Africa" - which is funded by the German Federal Ministry of Education and Research (BMBF) with at least 100 million Euro.



Professor Damalie Nakanjako, Makerere University and Professor Uwe Truyen, Leipzig University, Germany presented at the 2023 Science Summit UN General Assembly



Satellite meeting for all Research Networks for Health Innovations in Sub-Saharan Africa (RHISSA) programs at the 2023 Science Summit UN General Assembly

5.5 Representation at the Association of Academic Health Centers International (AAHCI):

Makerere University College of Health Sciences is a member of the AAHCI which is now part of the Association of American Medica Colleges (AAMC), which is dedicated to transform health care through innovative medical education, cutting edge patient care, and groundbreaking medical research; goals that sre similar to those of MakCHS...



5.6 Representation at IMELF 2023, hosted by the Colleges of Medicine of South Africa (CMSA) at the University of Pretoria, South Africa,

In March 2023, where Professor Damalie Nakanjako of Makerere University College of Health sciences presented and participated in panel discussions on training for clinical specialists in low-and middle-income countries. The panel was chaired by Professor Francis Omaswa, the executive director of ACHEST and Chancellor of Busitema University, Uganda



Dr Fred Bukachi, Director of the NCD Center for Excellence (CoE), hosted at University of Nairobi, Kenya and Professor Damalie Nakanjako, Principal- Makerere University College of Health Sciences, Kampala, Uganda; co-hosted the NCD symposium at MakCHS on 4th March 2023



Front Row from left to right: Prof Mowadat Rana, Dr Alex Coutinho, Dr Jane Fualal Odubu, Prof Francis Omaswa, Prof Johan Fagan, Prof Flavia Senkubuge, Prof Solomon Rataemane, Dr Vusumuzi Nhlapo, Dr Mathabo Mathebula, Prof Damalie Nakaniako Second Row from left to right: Dr Mpoki Ulisubisya, Prof Chite Asirwa, Prof Vanessa Burch, Prof Lionel Green-Thompson, Dr Mantoa Mokhachane, Prof Vanessa Steenkamp, Prof Zukiswa Zingela, Ms Stella Itungu

Third Row from left to Right: Prof Allaeldin Ahmed, Prof Peter Donkor, Prof James Jowi, Prof Philip Mshelbwala, Prof Mariza Vorster, Prof Priya Soma-Pillay, Dr Tamara Phiri, Prof Anil Madaree, Prof Zach Koto
Fourth Row from left to Right: Prof Eric Buch, Prof Martin Schwellnus, Dr Michael Mwachiro, Prof IP Olwoch, Dr Felix Woke, Prof Mthunzi

Ngcelwane, Prof Busisiwe Mrara, Prof Alan Davidson

Fifth Row from Left to Right: Prof Threnesan Naidoo, Dr Saeindhra Moodley, Dr Molatji Maloba, Prof Suvira Ramlall, Prof Dean Gopalan, Prof Jeanette Parkes, Mr Jerome Davies, Prof Oathokwa Nkomzana, Prof Elmi Muller, Prof Thozama Dubula, Prof Lawrence Tucker, Dr Trevor Mnguni, Prof Soraya Seedat, Dr Sa'ad Lahri, Prof Mahlatse Kgokolo, Prof Honey Mabuza, Prof Merika Tsitsi, Prof Daniel Qekwana, Prof Annalise Zemlin, Mrs Yolokazi Kanzi

5.7 Collaboration with Erasmus MC Rotterdam:

Two (2) visiting scientists from Erasmus MC Rotterdam, in the Netherlands were hosted by the College from 20th to 29th June 2023. Dr. Tokameh Mahmoudi, Raquel Crespo and Shringar Rao (joined online).

Dr. Tokameh is a Professor at the departments of Pathology- Biochemistry- Urology at Erasmus MC Rotterdam, Netherlands. trained Biochemist, Dr. Tokameh expertise is mechanistic dissection of the molecular events that drive viral pathogenesis and latency. Raquel Crespo is a PhD student at Erasmus MC carrying out a study about HIV drug screens to identify novel latency reversal agents, patientderived CD4+ T cell cultures, as in vitro cellular model to text latency reversal and elimination of replication competent cells. Shringar Rao is a Post – doc studying HIV - Induction selective cell death in HIV-1 Infected cells by DDX3 inhibitors leads to depletion of the inducible reservoir. HBV - infected human liver organoid-autologous immune cell co-culture.

The team gave an expert talk on Biology of HIV infection and molecular mechanisms of HIV infection and latency and this was attended by the Junior faculty, researchers, Graduate students (MICM, Bioinformatics both masters and PhD, General PhD students and mimed microbiology).

They visited the laboratories at the College including; Genomics, Molecular and Immunology Biorepository, Translational Mycobacteriology lab, Microbiology lab among others. Later in the afternoon, the visiting Scientists held Expert talks with PK-Malaria HIV team led by Prof. Pauline Byakika.

Students were able to present their proposal for experts' input and this included student interested in HIV and Malaria related studies. After which the Hepatology team headed by Prof. Ocama was able to meet with the visiting scientists. An Expert talk on Liver Organoid studies was given by Dr. Tokameh later in the day.

The scientists also gave an Expert talk on HIV cure approaches and reservoir quantification to junior faculty, researchers and graduate students from all Schools in the College. The team also met the Research forum at IDI, head of research at IDI after which they were able to tour the IDI clinic and held discussions about the Cohort and IDI core lab. The visiting scientists also carried out theoretical laboratory workshops for the different HIV reservoir measurements approaches.

Erasmus MC has been collaborating with Makerere University for over 10 years through the medical students' mobility program. The visiting team was under Immunity programs and are partners in the ARUA-GUILD Infection,

immunity inflammation cluster of excellence which is led by Makerere University and Radbound University in Nijmegen, Netherlands.

5.8 Sub-Saharan African Network for TB/HIV research excellence (SANTHE):

MakCHS senior faculty Prof Mayanja-Kizza is the site Principal investigator for the SANTHE to advance African Science, fighting HIV/AIDS and tuberculosis. SANTHE is a network of multi-disciplinary experts, working together to empower African scientists through pioneering basic, clinical and translational research.



Leaders of the cluster of excellence in Translational science in Infection, immunity and inflammation Prof Damalie Nakanjako, Makerere University and Professor Quirijn Mast, Radboud University Medical center at a meeting in Moshi, Tanzaniaa



Prof Harriet Mayanja-Kizza, Prof Damalie Nakanjakoand Dr Lydia Nakiyingi presented at the 2023 SUB-SAHARAN AFRICAN NETWORK FOR TB/HIV (SANTHE) RESEARCH EXCELLENCE (SANTHE) meeting



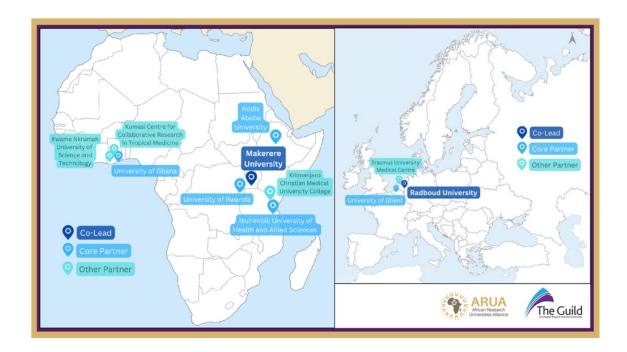
Principal Prof Damalie Nakanjako hosting college of Health Science Student leaders in her office

5.9 MakCHS leading two Africa Europe Clusters of Excellence:

The Africa – Europe Clusters of Research Excellence bring together some of the best researchers from both continents, all committed to addressing Sustainable Development Goals through scientific excellence. They are committed to equitable partnerships in a deeply unequal world. Each has a long-term plan for research, education and capacity building. Whilst the Clusters have been inspired by ARUA and The Guild, participation in the Clusters far exceeds our networks to bring together researchers from 160 institutions across 60 countries.



Leaders of the cluster of excellence in Translational science in Infection, immunity and inflammation Prof Damalie Nakanjako, Makerere University and Professor Quirijn Mast, Radboud University Medical center at a meeting in Moshi, Tanzaniaa



MakCHS is privileged to lead and host two clusters of excellence: the cluster of excellence in Preparedness and Response to Pandemics and Shocks Professor Rhoda K. Wanyenze – Dean of School of Public Health together with Professor Niko Speybroeck – Director of Centre for Research on the Epidemiology of Disasters, and the cluster of excellence in Translational Research in Infection, Immunity, and Inflammation that led by Professor Damalie Nakanjako at MakCHS and Prof Quirijn Mast at Radboud University Medical Centre

Priority area: Public Health

Rapid urbanisation and lifestyle changes in Sub-Saharan Africa (SSA) are transforming its disease epidemiology. The region is facing a double burden of disease: a rising prevalence of non-communicable diseases while the burden of infectious diseases (ID) and antimicrobial resistance remains high.



Prof Umar Kakumba, Deputy Vice Chancellor Academic Affairs hosted Prof Quirign Mast and Asscoc. Prof Andia-Biraro who led Prof Qurijn's first visit to Makerere University to discus the cluster activities with the Makerere team

The host immune system plays a pivotal role in these conditions and understanding the interactions between pathogens and host immunity is critical for effective treatments and prevention. However, populations in SSA are underrepresented in immunity and ID research, despite significant genetic, epidemiological and contextual differences.

In response, this CoRE will establish a network of institutions with expertise in infection, immunity and inflammatory response; aiming to promote capacity exchange programs that boost training and research efforts, knowledge, and technology transfer among institutions and equip the region with the necessary skills to acquire evidence that informs policies to help address pressing public health challenges in the coming years.

During his visit at Makerere University, Professor Quirijn met the infection immunity and inflammation teams at Makerere University and Ugamda Virus research institute, gave a talk at the Infectious Diseases Institute research forum and had discussion with masters and PhD students at MAKCHS.



5.10 Makerere University Hospital won multi-million-dollar contract from Wellcome Leap's In-Utero program

Makerere University Hospital received a multimillion-dollar contract from Wellcome Leap's In Utero program to implement a project to reduce stillbirth. The project is expected to develop novel clinical tools for use in diagnosing and managing high-risk pregnancies and reducing the burden of stillbirths in Uganda, sub-Saharan Africa, and globally. The researchers steering this project from Makerere University include Dr. Sam Ali (Principal investigator (PI)), Prof. Josaphat Byamugisha (co-PI) and Dr. Obondo J. Sande (co-PI). From the Netherlands, the co-PIs include Associate Professors Kerstin Klipstein Grobusch and Marcus Rijken from University Medical Center Utrecht, Associate Professor Wessel Ganzevoort from Amsterdam University Medical Center, and Associate Professor Sanne Gordijn from University Medical Center Groningen. Professor Aris Papageorghiou (co-PI) from the University of Oxford, United Kingdom and Dr Rose Mukisa Bisoborwa (co-PI) from White Ribbon Alliance Uganda join the group of seasoned scientists to implement the project. Makerere University contributes to achievement of the college, hospital and University research agenda through multi-disciplinary research collaborations and partnerships.



5.11 European Union (EU) CIVIS-Hub Consortium Visit

A delegation from the EU CIVIS-Hub Consortium visited MakCHS on 11th May 2023 to engage college about a mutual research partnership. The visitors held a meeting with MakCHS leadership including the Principal – Professor Damalie Nakanjako, Deans, Heads of Departments, and administrative staff. At the meeting, areas of collaboration of research teams at MakCHS and CIVIC that underpins high-level, multidisciplinary and multinational joint research and innovation opportunities.



Group photo: MakCHS Staff and EU CIVIS delegation (2nd left: EU CIVIS leader of delegation, 3rd left: Principal-MakCHS, Professor Nakanjako, 4th left: Director DRGT, Professor Edward Bbaale)

CIVIS hubs promote interdisciplinary thematic research and education areas established through the Erasmus programme to structure the European University. The goal of the consortium is to create innovative study and research programmes focusing on global societal challenges. CIVIS focuses five themes closely connected to major societal challenges and linked with the UN Sustainable development goals: Health, Cities, territories and mobilities, Digital and Technological transformation, Climate, environment and energy and Society, culture, heritage

5.12 Collaboration with Emergency Hospital, Entebbe

Makerere University signed a memorandum of understanding with Emergency hospital, a children's surgical hospital that provides that provides free elective peadiatric surgery with operations planned in advance and organized through waiting lists for mainly birth defects, urological and gynaecological defects, cleft lip, gastrointestinal abnormalities and other pathologies of more general surgical relevance. The hospital has three operating theatres. The delegation from Makerere University College of Health Sciences visited the hospital to explore opportunities for collaboration to improve training and service delivery. The team highlighted opportunities to enhance training in surgery, anaesthesia, nursing, intensive care, and biomedical engineering, among others.



Principal, MakCHS, Prof. Nakanjako, Assoc. Prof Arthur Kwizera (representing the Dean School of Medicine and Head of Department, Anaesthesia and Kakembo (representing the Head of Department of Surgery) with the team at Emergency hospital, Entebbe.

5.13 The Infectious Diseases Research Collaboration (IDRC; www.idrc-uganda.org):

IDRC is a not-for-profit research organization, which was established in 2008 by Ugandan health scientists from Makerere University (Mak) and the Uganda Ministry of Health. IDRC is the leading malaria research organization in Uganda and collaborates with Mak with an established memorandum of understanding. The objectives of IDRC include conducting highquality research in infectious diseases; building capacity through training and technology transfer; disseminating results; and promoting evidence-based health policies by linking researchers and policymakers. In recent years IDRC investigators publish over 60 papers per year. The research and publications of IDRC contribute to Makerere University's productivity and the collaboration has fostered the career growth of several young investigators.

IDRC has established advanced molecular/parasitology/immunology laboratories in Kampala and Tororo with capacity for molecular biology and genomics studies, culture and in vitro assays of malaria parasites, harvesting of peripheral blood mononuclear cells, and fluorescence-activated single cell sorting (FACS) assays to support translational molecular, parasitology, and immunology studies. IDRC, in collaboration with Central Public Health Laboratories (CPHL), has also established a reference malaria laboratory in Uganda.

This laboratory has capacity for antimalarial drug susceptibility assays, parasite species determination, amplicon deep sequencing, characterization of genetic polymorphisms and relevant cellular and humoral immunology assays. Recently, IDRC collaborated with CPHL to establish a medical entomology insectary for entomological surveillance and research. The insectary has capacity to conduct insecticide susceptibility testing using WHO bioassays, LLIN bio-efficacy testing, sporozoite ELISAs and molecular analysis for mosquito vector species identification, and characterization of markers of insecticide resistance. In 2022, IDRC and UCSF received awards from the Bill and Melinda Gates Foundation (BMGF) to build capacity and scale up malaria molecular epidemiology and bioinformatics research to inform programmatic decision-making in Uganda.

Example of research capacity at the field offices (Tororo site)



Evaluation rooms



Microscopy



Well equipped labs



Sample collection areas



Data Centre



Sample storage

As a training partner for Makerere University, the IDRC research infrastructure is available for Makerere University College of Health Sciences graduate students and several PhD and master's trainees have conducted their research or done internships within IDRC. In addition to malaria, IDRC is involved in research in HIV/TB, noncommunicable diseases, other diseases of public health importance and health systems research.

5.14 Makerere University College of Health Sciences-Amsterdam University Medical Centres/Amsterdam Institute for Global Health and Development:

This collaboration aims to strengthen health research and research capacity strengthening between Makerere University College of Health Sciences (MakCHS) and the Amsterdam University Medical Centres (previously Academic Medical Centre)/Amsterdam Institute for Global Health and Development (AUMC/AIGHD).

This collaboration that started way back around 2000 formed the basis for the The Infectious Diseases Network for Treatment and Research

In Africa (INTERACT) programme for capacity building in poverty-related infectious disease research in Uganda and Rwanda between 2006-2012 which was funded by the Netherlands Government as its contribution to EDCTP-1 (the NACCAP funding programme) and the European Union through its EuropeAid mechanism. INTERACT was built around a number of cohort studies in HIV, malaria and tuberculosis that were established with programme funding and linked to PhD projects. The programme helped build and strengthen infrastructure such as data management, laboratories, and research support/grant management, and developed and provided training at various levels.

INTERACT had several outcomes resulting from the training and human capacity strengthening. INTERACT supported Master courses at MUCHS through funding and Master theses supervision for Deus Lukove. In addition, two medical students of the AUMC did their Master thesis research project in Kampala as part of the INTERACT collaboration and supported four PhDs and several short courses to support research training. Subsequently, the Africa Research Initiative and Support Network (ARISE) Consortium was a protrusion from the INTERACT programme whose main objective was to strengthen research and development capacity by developing a network of Research Support & Training Centers (RSTCs) in sub-Saharan Africa. The ARISE programme also formed the basis for another PhD project as part of the Erasmus Mundus TransGlobalHealth programme funded by the European Union. This was a joint doctorate programme between, amongst others, the AUMC/University of Amsterdam, and the University of Barcelona (Spain) with additional attachments at the Institute for Tropical Medicine (Belgium) that supported doctoral training for Willy Ssengooba who studied the consequences of Mycobacterium tuberculosis genetic diversity in the context of HIV co-infection for laboratory diagnosis of tuberculosis in Africa.

Current collaboration: The current collaboration in general is centred on continuation of the long existing collaboration. Specifically, there are three partially related EDCTP-funded projects in which both institutes are participating, all on TB diagnostics:

- PreFIT (2020-2024): Overall coordinator Prof. Frank Cobelens, MakCHS PI Prof. Moses Joloba.
- Stool4TB (2021-2024): Overall coordinator
 Dr. Alberto Garcia-Basteiro (University of Barcelona), MakCHS PI Prof. Moses Joloba.
- CAGE-TB (2021-204): Overall coordinator Prof. Grant Theron (University of Stellenbosch, South Africa), MakCHS PI Prof. Moses Joloba.

The capacity strengthening component includes MSc support and PhD projects. The PhD projects are funded by one of these projects but make use of data and specimens collected across them. Currently registered as PhDs with AUMC/ University of Amsterdam:

- Derrick Semugenze. Funded by PreFIT.
 Topic: viral infections as triggers for TB disease progression.
- Kevin Komakech. Funded by CAGE-TB. Topic: triage testing in the diagnosis of pulmonary TB.
- Ivan Sserwadda. Funded by CAGE-TB.
 Topic: lung microbiome in TB and its impact on the diagnostic accuracy of triage tests.

Prof. Moses Joloba is second promotor or co-promotor and Willy Ssengooba is daily supervisor on each of these PhD projects.

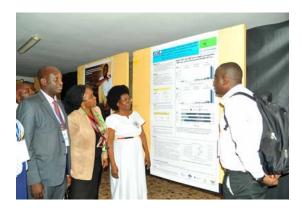
Future plans: AIGHD/AUMC continues its close collaborations with MakCHS. The current focus is exploration of the expansion of the collaboration and scientific relationships with the college and the college partners, primarily through joint applications for collaborative research and training grants. MakCHS and AUMC/AIGHD are jointly exploring options for a Joint PhD Programme in which candidates would take their PhD at both Makerere University and the University of Amsterdam through a jointly supervised project, a single thesis and a single PhD defense for a combined PhD committee. Initial discussions and preliminary consultations are under way to explore a workable mechanism for this important aspect.

SCIENTIFIC CONFERENCES ORGANISED

6.0 SCIENTIFIC CONFERENCES ORGANISED

6.1 The 17th Joint Annual Scientific Health Conference (JASH)

MakCHS Joint Annual Scientific Conference (JASH) is an annual conference that provides a platform for the college faculty, students, and collaborators to disseminate research. This has been hosted for 16 years and the college has a culture that each school is given opportunity to lead the organization of this important event. This year, the School of Health Sciences hosted the 17th JASH on 20th – 22nd September 2023 at Imperial Resort Beach Hotel, Entebbe, Uganda. MakCHS hosted the 17th JASH in collaboration with the Uganda National Association of Community and Occupational Health (UNACOH).



Hon. Dr Monica Musenero gave key note address at the 16th JASH and emphasized the concept of pathogen economy in utilizing science innovations for national development. Together with the Principal and Dr Kamba, Dean of the School of Health Sciences, they viewed the poster presenations by staff, makCHS faculty and other conference delegates.



At MakCHS 17th Joint annualscientific conference Professor Barnabas Nawangwe was recognized for his commitment to support the use of evidence to action and for leading MAK as a research-led University. The award was presented to him by the Principal a top management meeting at Makerere Uniersity.





Special acknowledgement goes to the staff of the school of Health Sciences and the School of Dentistry who led the organization of the 2023 17th Joint Annual Scientific conference and the MakCHS students who participated in this important activity to get the skills and experience of organizing an international scientific meeting.



Professors Nelson Sewankambo, Howard and Damalie Nakanjako were also recognized for their contributions to support the use of evidence to action to improve humanity. As part of the conference satellite sessions, Prof Howard conducted a systematic review working to promote the use of evidence to action.

Dr Ekwaro Obuku, on behalf of the Africa Centre of Excellence in Research Evidence Synthesis hosted at MakCHS emphasized the use of evidence to inform interventions and control of emerging and re-emerging pandemics in the country and region.



Panelists for the Plenary 1 session at the 17th JASH held 21-23rd September 2023

Awards to best presenters at the 17th Joint annual Scientific conference to motivate students and faculty to disseminate their research fundings at this annual scientific meeting.

Awards for Best oral presentation were given to the categories below

Undergraduate

Graduate

Overall







Erick Sunumi

Dr. Kiddu Prossy Namyalo

Aida Nanvuma

Awards for best poster presentation were also given after rigorous review process











Student organizing committee

Staff organizing committee

Special acknowledgement goes to the staff of the school of Health Sciences and the School of Dentistry who led the organization of the 2023 17th Joint Annual Scientific conference and the MakCHS students who participated in this important activity to get the skills and experience of organizing an international scientific meeting.

6.2 Non-Communicable Diseases (NCDs) Symposium 2023:

Makerere University College of Health Sciences (MakCHS), a member of the Alliance of Research Universities in Africa (ARUA) NCD Centre of Excellence, hosted a Non-Communicable Diseases (NCDs) Symposium on 4th March 2023; under the theme of the symposium 'Advances in NCD Training, Research and Community Impact'.





Dr Fred Bukachi, Director of the NCD Center for Excellence (CoE), hosted at University of Nairobi, Kenya and Professor Damalie Nakanjako, Principal- Makerere University College of Health Sciences, Kampala, Uganda; co-hosted the NCD symposium at MakCHS on 4th March 2023

In her opening remarks, the Principal informed participants that ARUA (African Research Universities Alliance) has been instrumental in supporting the symposium. ARUA is a network of universities from different countries, but with a common vision. This network aims to enhance research and graduate training in member universities through a number of channels including setting up of Centres of Excellence (CoEs) to be hosted by the member universities. She further highlighted that ARUA brings teams together from academic institutions in Africa to work together so that members are cognizant of what is going on in terms of research and training in the various institutions, share experiences, dialogue and exchange of information and good practices as this is more sustainable than working as individual programs or projects within individualized institutions. Prof. Nakanjako thus noted that this NCDs symposium was evident of this cause and efforts. She emphasized that ARUA was not a project, but rather a network of research intensive academic institutions in Africa and working together to promote research and its impact in Africa and globally..



Deputy Vice Chancellor Academic Affairs, Makerere University-Prof. Umaru Kakumba (Middle), Dr Hafsa Kasule -WHO NCD Lead, Dr Bukachi Fred, University of Nairobi, Prof. Damalie Nakanjako- Principal MakCHSand all MakCHS staff, students and partners at the NCD symposium on 4th March at Davies Lecture Theatre









Dr. Fred Bukachi, in his remarks informed participants that the ARUA Center for Excellence (CoE) in NCDs had been launched at the University of Nairobi, Kenya was launched in December 2022. This network is a partnership including Makerere University (Uganda), University of Nairobi, University of Dar-es Salaam, the University of Ghana (Ghana), University of Ibadan (Nigeria), University of Rwanda, and the University of Witwatersrand (South Africa). The NCD COE collaborates with MakCHS other partners including University of Glasgow and University of Leicester in the United Kingdom. He further noted that the vision is to build more partnerships, and strengthen networking. The Centre's research areas on NCDs has been framed around three broad areas of: 1) Prevention, 2) Early detection & control, and 3) Big data. The other cross cutting themes are gender, education & mentorship, communication & dissemination and engagement with the public.

Dr Bukachi informed participants that the center has had some successes: 1) supported research and training 2) has been able to give

out small grants up to 30,000 UK pounds to different researchers within the 5 universities, 3) supported this NCD Symposium and other workshops within the region, 4) built more partnerships and networking which has been fairly successful in the last 2 to 3 years, 5) had a short private online course (Uniwell short course) looking at indoor pollution with the University of Birmingham (and we are hoping to extend this course to the rest of the partners in the region).

He invited Makerere University students to participate in the Erasmus plus mobility program when the call is made where through student exchange, they award up to 150 scholarships.

Dr. Bukachi also mentioned some ongoing activities and future plans including: The NCD Symposium that was taking place at the time, the Regional NCD Symposia, the 4th Biennial Conference planned to be held at the University of Lagos from 15 to 17 November 2023; and the continuous grant applications & collaborations (with the new collaborations of University of Birmingham and Columbia University)...



Participants at the NCDs Symposium



Prof. Kakumba welcomed members to the Symposium. He noted that this was an important symposium because NCDs were noted as a global health burden and a disaster, subjecting many people to an economic burden especially in developing countries. This was a serious concern to the academia, researchers and health care systems. He also observed that awareness of NCDs was low among people and that the symposium had brought forth the great work done by academia and researchers to handle and prevent NCDs.

Prof Kakumba noted that many families were sacrificing a lot of resources in handling members with NCDs and he called on for behavioural change. He requested for youth to support the prevention and fight against NCDs.

In addition, Prof. Kakumba called upon researchers and academics to spearhead the translation of research into knowledge and practice within the communities and among policy makers. He also encouraged collaboration with the private sector to support research and training initiatives. He appreciated the role of universities in fostering the international collaborations, training and research; the local collaborations between the universities, agencies of government and the community in working together to solve health issues.

Prof. Kakumba appreciated the effort from the leadership of Professor Nakanjako and ARUA for the excellence in working together with Makerere University and he appreciated all partners from various universities that were supporting research and the efforts made to improve health in the community.

The Commissioner Non Communicable Diseases, Ministry of Health, Dr. Frank Mugabe represented the Commissioner for NCDs, Dr.

Charles Oyo. Regarding the National Priority Areas for NCDs Research and Training, He highlighted that NCDs are a major cause of mortality at 71% of the global burden according to the WHO Report of 2021. He pointed out that each year, 15 million people between 15 and 69 years of age die of NCDs in low and middle income countries, which is regarded as premature death. He listed some of the common NCDs in Uganda as; cardiovascular diseases, diabetes, mental health diseases, neurological diseases, sicklecell diseases.

He indicated that Uganda is one of those countries that still consume a lot of alcohol and it's estimated that, 10% of Ugandans who consume alcohol live with alcohol related disorders. He also noted high tobacco use and substance use. Physical inactivity especially in the urban setting was a factor in the increase of NCDs as well. In the Ugandan population of those below 40 years, accidents are contributing 70% of the early deaths, to which NCDs are contributing 50%.

The commissioner NCD informed the participants that the Ministry was conducting a second National Risk Factors Survey facilitated by WHO and Makerere University School of Public Health. He also called for a multisectoral approach to fight the NCDs involving the business community, media, civil society, affected families, and society to invest in what is needed. There is need for schools to get involved to talk about NCDs in classes and lecture rooms with a focus on prevention.



Dr. Frank Mugabe emphasized the need to create more opportunities for dissemination of

the research findings and sharing them with policy makers. He thus invited members with any NCD related data to share it with the MoH because it was in the process of reviewing the HIMS tools and the treatment policy.



NCD symposium co-chairs: Dr Innocent Besigye (Left), Senior Lecturer, Department of Family Medicine, School of Medicine, MakCHS and Dr Isaac Ssinabulya (Right), Consultant Cardiologist – Uganda Heart Institute and Honorary Faculty in the Department of Medicine, School of Medicine, Makerere University College of Health Sciences

Global Priority Areas for Research & Training in NCD WHO Cluster:



Presented by Dr Kasule Hafisa, Technical Officer of NCDs, World Health Organisation, Country Officer

Dr. Kasule called upon members to translate research into practice. Noted that the missing link needed to be bridged. She reminded members that there was a high burden of NCDs affecting 41 million people each year, and accounts for 74% of global diseases. Seventeen million of these are below the age of 70, or considered to be premature deaths, and among these ones 86% were in low and middle income countries

like Uganda. Emphasized that NCDs were not a disease of the rich, it was also affecting those in developing countries, with 77% deaths in low and middle income countries. Dr Kasule reported that over 80% of the NCDs were cardiovascular diseases, cancer, chronic respiratory diseases, and diabetes. The 4 share common risk factors. These have common behavioural structures that is tobacco use, alcohol consumption and unhealthy diet with high sugar and salt. She reported that over 1.8 million people die simply by using tobacco directly, at over 1.2 million deaths occur for being exposed to tobacco, 1.8 million deaths occur annually due to sodium

Dr. Kasule re-echoed the WHO strategy to ensure that all partners work together to consider science, technology and broader knowledge to choose the best evidence and tools for improving global health. She noted that WHO research agenda is to ensure decisions and actions for addressing NCDs are grounded in evidence from research. Interventions must follow the

evidence-based research and addressing the NCD risk factors. She emphasized the need to strengthen the links between health research and health policy and practice.

Advances in stroke/neurological training, research and community impact: was presented by Associate Professor Mark Kaddu-Mukasa, Internal Medicine Department



Dr. Mark Kaddu-Mukasa reported an increase in stroke related research and publications over the years. He noted that Ischemic stroke has better survival probability in 30 days. Due to the high burden of neurological impairment and interventions needed like hydroxyurea, recommended the testing of hydroxyurea or other available disease-modifying interventions to address these challenges.

Dr. Kaddu Mukasa noted that there was a general downward trend in communicable disease diagnoses and an upward trend in NCD diagnoses over the study period. He recommended

- Improving outcomes of acute stroke admissions across Africa is an urgent imperative.
- Clear understanding of the patient-related predictors of acute stroke fatality is needed to help tailor management algorithms to avert stroke deaths.
- An appraisal of system-related factors such as stroke services availability within hospitals is also required to help identify gaps for resource allocation for optimal stroke care.

Currently under the Stroke R01 and D43 grants: In the D43 grant (10 Masters of Medicine research have been supported (6 have completed & 4 are ongoing), 5 PhD supported are ongoing, 2 Junior faculty in Neurology research training) and in the R01 stroke grant (14 Masters of Medicine research training have been supported (8 have completed and 6 are ongoing).

PaediatricNeurosciencesatMakererewas presented by Dr. Rodney Ogwang, whorepresented Dr. Richard Idro, PaediatricsDepartment

He mentioned the following ongoing studies:

- Studying the effects, mechanisms and interventions to improve the long-term neurocognitive and developmental outcomes of brain injury in children conducted by Dr Richard Idro, Associate Prof Nakasujja, Dr Robert Opoka and Dr Paul Bangirana.
- 2) Nodding Syndrome in Africa. Reported that Uganda was winning the Nodding Syndrome war which was managed by: Investment in vector control (done through mapping, larviciding, aerial spraying) and Mass drug administration. They have had a strategy of: 'bringing it all together' where groups bring all available results together as multidisciplinary expertise.
- 3) Another study has been focusing on Brain Injury in Sickle Cell Anaemia
- 4) The other study is the Brain Safe Trial, Hydroxyurea for Neurological and Cognitive Protection in Pediatric Sickle Cell Anemia in Uganda: A single arm open label trial, "BRAIN SAFE II". The aim of this study is to evaluate the effectiveness of Hydroxyurea on reducing the burden of stroke and cognitive impairment in children with sickle cell anemia.

It was reported that there has been capacity building through infrastructure and human resource development in the nodding syndrome study (technicians, 1 in research management, 4 master of science students, and 4 Ph.D. students)

They have also supported 8 PhD and Post Doc students in the other studies.

Participation in everyday life – A randomized controlled trial of mobile phone-supported and family-centred rehabilitation after stroke in Uganda was presented by Susanne Guidetti,

Professor in Occupational Therapy, Centre of Excellence for Sustainable Health, (CESH) NCDs



Susanne Guidetti reported that the *conducted studies* are in 2 phases: **Phase 1: The** program studied the people who had had stroke, related and the team's experience of using ICT in Sweden, Denmark and Uganda in order to develop a model for an intervention.

Phase 2: Developed and tested an intervention, where ICT has been used as support in rehabilitation for people who had stroke and their relatives in a feasibility study with RCT design in Uganda and for a group of people in Sweden (without control group).

Funded by the Swedish Research Council (VR Several manuscripts have been published from these studies.

An overview of advances in investigational methodologies in Infectious Diseases relevant for NCD research and training in Uganda was presented by Dr David Kateete, Immunology and Microbiology Department

Dr. David Kateete noted the interaction between NCDs and Infectious Diseases (IDs) is well established and evolving (Helicobacter pylori and peptic ulcer disease; Hepatitis B/C viruses and chronic liver disease; Infectious agents and cancer; COVID-19 and Obesity, DM). He noted that both NCDs and IDs have underlying genetic factors, many largely unexplored that however there are modern molecular approaches that can elucidate genetic risk factors underlying NCDs/IDs. Africa has a high genomic diversity.

He highlighted that Collaborations through H3 Africa aim to build capacity in Africa for Genomics and Environmental Health Research relevant to NCDs and IDs.

Working with other universities through a Collaborative African Genomics Network comprised of Baylor College of Medicine, Houston, Texas, University of Bostwana (Baylor Children's Clinical COE) and Makerere College of Health Sciences (Baylor Children's Clinical COE).



Dr. Kateete also reported that the African scientists have found out that HIV-1 infection shows phenotypic heterogeneity in disease progression where more graduate students, took center stage in the study. Single variant enrichment analysis revealed a variant rs145985036 in the *NLRX1* gene to be associated with HIV disease progression.

Training: Reported that in 2019 formal bioinformatics graduate training (Master's & PhD) at Makerere started. The programs attract approximately 70 applicants per year, and are internationally appealing. 220 applications in 3 years have yielded to 76 registered students with 64 masters and 12 Ph.D. (Uganda (189), Kenya (10), Tanzania (5), Somalia (4), Rwanda (02), South Sudan (2), eSwatini (2), Nigeria (2), Cameroon (2), Ghana (1) and Congo-Brazzaville (1).

He emphasized that daata science has gained prominence and popularity over the last 5 years; it is the discipline 'that deals with vast volumes of data, using modern computational tools and techniques to find unseen patterns. This combines the application of Computer Science/IT, Mathematics/Statistics, and specific domain expertise (in this case 'Health Sciences') into a single discipline that focuses on uncovering actionable insights hidden in big data.

The project "Makerere University Data Science Research Training to Strengthen Evidence-Based Health Innovation, Intervention and Policy (MakDARTA)", a multidisciplinary partnership between Makerere University & John Hopkins has the following training objectives: 1) establish Higher degree training (MS & PhD) in health data science, 2) provide postdoctoral training that will enable Ugandan H3Africa alumni to transition into faculty and/or independent data science research leaders, and 4) train Makerere faculty to enhance their capabilities for data science research and mentorship of data science trainees.

They have also participated in: Curriculum Review / development with the School of Public Health: training health researchers in Al/ML; reviewed bioinformatics programs to 'Bioinformatics & Health Data Science'; Trained Researchers in Al/ML: Masters and PhD Trainees. 4 PhD trainees will depart to JHU, 8 Master's trainees doing research in health data science and recruited 2 PhD trainees (biology/health background).

TRIAD – Trauma, Injuries, and Disability Unit Presented by Frederick Oporia, Trauma Injury Control Center, School of Public Health



The TRIAD at MakSPH is the only unit in Uganda with focus on injury prevention research, Track record of injury research, and research capacity building and strong national & international collaboration and partnerships. The project supports 3 PhD Fellows, 4 Research Associates and others. Its objective is to contribute to the reduction of the injury burden in Uganda by strengthening research capacity on injuries and their medical, social, and economic consequences to individuals, communities, and the country.

Field of research, training, and service: Unintentional injuries: Road traffic injuries, drowning, burns, falls, poisoning, occupational injuriesc and Intentional injuries (Violence): Suicide and self-harm, Interpersonal violence, collective violence, Gender based violence,

violence against children and Disability and rehabilitation

Why they exist? 1) To study the high burden of injuries in the country, with over 5 million people succumbing to injuries every year, every six seconds, someone dies from an injury with over 50 million people remaining with disabilities and 2) to capture data because of insufficient research capacity to drive prevention and management. Noted that injuries require a multidisciplinary approach. According to the Uganda Annual Health Sector Performance Report 2017/2018, the burden of injuries in Uganda indicated that injuries were the leading causes of hospital admission and mortality rated at 5.60%.

Emphasized that the injury pyramid was basically what was not seen (death, permanent disability, hospitalization, and missing work or school).

Partners: Bloomberg Philanthropies, Uganda Police Force, KCCA, The Johns Hopkins University, The George Institute for Global Health, Stellenbosch University , University of Rwanda, University of Malawi, Freiburg University, The US CDC, Imperial College London, MRC – UK, Transaid, GIZ and Uganda government ministries: Health, Works and Transport, OPM etc

Trends of Orthopaedic trauma in the last decade was Presented by Dr. Sekimpi Patrick, Orthopaedics Department

According to the WHO World Report on Road Traffic Injury Prevention, Geneva, 2022. Road Traffic Accidents (RTAs) were among the leading causes of death in 1990 ranking the 9th in 1990, and in 2020 RTAs ranked the 3rd. During the period between August 2004 to July 2005, 1398 (39%) of the 3585 individuals involved in RTAs had musculoskeletal injuries. According to the Annual Uganda Police Force Reports (2010-2021), it reported an increase in RTA. It was reported that the majority occur within Kampala Metropolitan area with 53.3% reported in 2010, 54.5% in 2011, 38% in 2020 and 39% in 2021. According to study commissioned by the Parliamentary committee of Health: a number of admissions to Regional Referral hospitals including Mulago were due to trauma and is steadily increasing each year.

Dr Sekimpi reported that other causes of trauma admissions include Gunshot wounds, Falls from trees, Domestic violence and Assault. He also reported steep increase in fragility fractures in the Orthopaedic Department, Mulago Hospital, mainly around the hip and spine due to HIV/ HAART associated osteoporosis. Because of increased Ugandan life expectancy, the focus is on early fixation and mobilization and use of C-ARM during fixation.

Dr. Sekimpi recommended 1) establishing data systems for research purposes. 2) promoting inter-institutional collaboration in data sharing, policy development. 3) Police vigilance/ road safety awareness are needed. 4) planning for an organized Transport system. 5) A multidisciplinary approach in patient management. 6) establishing an effective referral systems (with regional and national trauma centers of excellence). and 7) Training at all levels and also consider sub-specialty/ fellowship training and think of a Curriculum review



In her closing remarks, the Principal urged all the NCD researchers, academicians, policy makers, private entities and government bodies to work together to generate and utilize evidence to guide multidisciplinary approaches and policies to prevent and manage NCDs. She also urged members work with the Ministry of Health and WHO (both represented at the symposium) to utilize the research outputs to inform national NCD policies. The principal challenged the NCD research and training groups to have an annual NCD symposium as a forum for dissemination of research findings; experience and lessons learnt and their impact to communities in the field of NCDs.

The NCD Scientists were treated to a cake, as a symbol to celebrate their partnership in

combating the emerging burden of NCDs in Africa

Special thanks to all the symposium delegates, co-chairs and organizing committee, presenters and all physical and virtual participants for make the 2023 MakCHS NCD symposium a success





NCD symposium co-chairs: Dr Innocent Besigye (Left), Senior Lecturer, Department of Family Medicine, School of Medicine, MakCHS and Dr Isaac Ssinabulya (Right), Consultant Cardiologist – Uganda Heart Institute and Honorary Faculty in the Department of Medicine, School of Medicine, Makerere University College of Health Sciences

Research and Training Programs for Sickle Cell Disease (SCD) at Makerere College of Health Sciences

Presented by Professor Sarah Kiguli and Dr Ruth Namazzi, Paediatrics Department





MakCHS scientists at the SANTHE meeting in Lusaka Zambia, 12-14th July 2023 included Prof Harriet Mayanja-Kizza, Prof Damalie Nakanjako, and Dr Lydia Nakiyingi

These talked about the research and training programmes in SCD at the College of Health Sciences. They informed participants that Africa bears a highest burden of SCD with a number of children who remain undiagnosed, and hence do not even contribute to the statistics. There is a limited trained work force in the care for SCD patients. They emphasized that all people need to work together to get evidence and give care as a team. They noted that there has been an increase in SCD related research in Uganda and beyond in the past 10 years; with studies including clinical trials, cohort studies, implementation science and genetic studies. They reported the sources of funding for SCD research were mainly external and the local funding was from the Makerere Research and Innovations Fund (MakRIF). Reported that the NOAHRM trial findings led to the approval and registration of hydroxyurea for treatment of sickle cell disease in children in Uganda.

The other haematology disorders being studied included anaemia caused by malaria and hematological malignancies. It was emphasized that training for SCD was key in improving outcomes which has been incorporated into undergraduate and post graduate training programmes. In addition, the mentioned the need for capacity building for SCD research to support PhD and master students' training This has been delivered as part of the biomedical courses as well as clinical apprenticeships on the ward with an aim to recognise the SCD symptoms and referrals as needed. They concluded by mentioning two ongoing SCD research projects: 1) Vitamin D Supplementation in Children with Sickle Cell Disease -VIDS and 2) Strengthening Capacity for Clinical Care, Research & Training in SCD (SCRT Project) and the college of health Sciences hemato-incology fellowship program that was currently being accredited by Uganda Medical and Dental Practitioners' Council.

Cancer Research and Training in Department of Surgery

Presented by Prof Moses Galukande, Surgery Department



Prof. Galukande gave some historical perspectives that Burkitt Lymphoma, an aggressive non-Hodgkin lymphoma, was first described by Dennis Burkitt in 1958 in Ugandan children.

Research: Participants were informed about ongoing graduate research on cancer related themes. "Since 1974 to 2022, 264 dissertations have been written, 33 (12.5%) out of 264 are cancer related, and the top 4 cancers are: Breast cancer (22), Prostate cancer (5), Oesophagus cancer (3) and Colorectal (3)" he said.

Faculty Driven Research: Prof Galukande reported five (5) ongoing PhDs related to cancer (Drs. Herve, Mbiine, Kituuka, Sekitoleko, and Makumbi) who are focusing on Stem cell Therapy, Ethics, Carcinogenesis (Bladder and Breast) and Neuro trauma. Reported that breast cancer and prostate cancer were the top researched cancers by Faculty. Collaborations and funding: He mentioned that members received funding from the Makerere RIF and through collaborations with IARC - ABCDo, IARC - ABCDE, Minnesota, Cambridge and Toledo, and participated in development of cancer guidelines of: Breast (which has been done thrice), esophogus cancer, Stomach cancer and Prostate cancer.

Reported that in cancer; 1 PhD was completed, 5 PhD were in progress and 38 breast cancer manuscripts have been published since 2003 to date.

Prof. Galukande concluded by stating the future research priorities & opportunities as: 1) Breast Cancer to become top on cancer research among women in Uganda, 2) Tumor biology (disparities in epidemiology) and 3) Contextual evidence because there need for Uganda's own data.

Overview of Cancer Research and Training Programmes at Uganda Cancer Institute

Presented by Dr Nixon Niyonzima, Director Research and Training, Uganda Cancer Institute



Dr. Niyonzima began by giving a brief background of Uganda Cancer Institute (UCI); It was established in 1967 (56 years ago) as a collaboration with the NCI, started as a treatment centre for Burkitt Lymphoma, was a facility of early combination chemotherapy trials, received autonomy in 2016 and is now an East Africa Centre of Excellence in Oncology care.

Overview of cancer in Uganda. He reported that: There are 34,008 new cases of cancer in Uganda per year, UCI receives only 20% of these cases (6,000 to 7000, 600(10%) children), 30% of the patients with Cancer are HIV positive, survival is low for most cancers, majority present in stage III and IV disease. Number of cancer patients are seen increasing over years, an estimated 77-90% of all breast cancers present with stage III/IV disease.

UCI offers a Comprehensive Cancer Care: Medical oncology, Gynaecological-Oncology, Surgical Oncology, Paediatric Oncology, Palliative care/rehabilitation, Research and training, Laboratory, Radiation Oncology, Nuclear Medicine. UCI is planning regional a Cancer Surveillance to expand cancer registration in Uganda at 5 PBCR which will feed into National Cancer Registry. These are Kampala Cancer Registry, Mayuge Cancer Registry, Arua Cancer Registry, Gulu Cancer Registry and Mbarara Cancer Registry.

Research and Training: Research priorities are: Comprehensive Cancer surveillance, (epidemiology, aetiology), Clinical research, Implementation Science research (uptake of evidence-based practices), Catalyse basic and translational cancer research (Research lab, Biorepository), Clinical Trials, Mentorship, & Networks and collaborations.

Innovations:

- There has been development of novel and cost-effective Therapies. All these are with the relatively less toxic COM regimen

 Cyclophosphamide, Vincristine and Methotrexate and the question is can we improve this therapy?
- Developing Novel Therapies for BL where they are developing mouse xenograft models to study tumor evolution in BL to understand mechanisms of resistance and test new therapies/new cost-effective combinations.

Expanding Cancer Research: Clinical trials, New and affordable diagnostics, ctDNA/liquid biopsie, Radiation Oncology, Implementation science research, cost-effectiveness studies, estimating the unmet need for cancer services, Prevention and control research, Africa cancer genomics, Diversity and phylogeny of oncogenic viruses, Oncogenome in viral associated cancers, Immune responses (CD4+ and CD8+T cell repertoires) in cancer patients with and without HIV, establishment of cohorts to study cancer risk factors, clinico-pathologic characteristics, and survival and Economics of cancer.

Research and Training infrastructure: Pathology laboratory and Biorepository, receive more than 5000 patient specimens per year, Comprehensive Cancer Care Centre, 7000 new cancer patients per year, Regional Cancer Centres, Research laboratories, have highly

trained and qualified staff, linkage to MakCHS as the academia, they have a Research Ethics committee, Scientific Review Committee and an Institutional Biosafety Committee.

Future research and Training infrastructure: Research laboratories, Bone Marrow Transplant, Biorepository, Research spaces/offices, Surgical services and ICU, Training centre, Conference centre and Reference clinical laboratories

Concluded by giving challenges UCI was facing:

- 1) High Patient burden on; staffing quality and quantity, infrastructure, and equipment,
- 2) Funding for the regional cancer centres,
- Financing and budgetary constraints, high costs of training cancer specialists,
- 4) Inadequate resources (financing),
- 5) Limited Human Resource capacity,
- 6) Limited infrastructure, and
- Large number of patients/heavy clinical load.

Cervical Cancer Prevention and Early detection

Presented by Miriam Nakalembe, Associate Professor, Obsteteric & Gynaecology Department Prof. Nakalembe informed participants of the on-going projects:



- United States-East Africa HIV-Associated Malignancy Research Center for Career Development and the Prevention, Early Detection and Efficient Linkage to Care for Virus-related Cancers.
- The East Africa Consortium for HPV and Cervical Cancer in Women living with HIV/ AIDS (EACHC).

Prof. Nakalembe gave highlights from the study entitled "A Public Health Approach to an Integrated Cervical Cancer Prevention Program in Uganda and Kenya".

Noted that they have proved that a public health approach for Cervical Cancer screening with self collection of specimen for HPV testing and treatment within the community was feasible and acceptable. This was purposed to mop up HPV vaccination for girls who did not get either HPV1 or 2 during the school vaccination campaigns in conducted in recent years.

She noted that this was in response to an evaluation of the MOH community approach to integrated Cervical Cancer prevention.

Reported the following Program activities:

- 1. Screening in Health fairs have been conducted: Uganda and Kenya.
- Community Outreach and Mobilization (Focus group discussions to develop tailored messaging, trained Village Health Teams (VHTs), and community mobilization Strategy.
- 3. Mobile Treatment set up in sub-county health center

Other ongoing studies:

- Effect of SARS-CoV-2 infection on Immune responses to HPV infection among HIV infected women.
- Role and clinical significance of unconventional gamma delta cells in cervical cancer and HIV-1 co-infection.
- Barriers and facilitators of cervical cancer screening literacy among HIV-infected women in care at rural public health facilities in Eastern Uganda.



6.3 11th International Conference on Cryptococcus and Cryptococcosis (ICCC 2023)

Makerere University College of Health Sciences Hosted the 11th International Conference on Cryptococcus and Cryptococcosis (ICCC) at Speke resort Munyonyo, Kampala in collaboration with the University of Minnesota. The meeting was opened by the Vice Chancellor, Makerere University, Professor Baranabas Nawawangwe who congratulated the teams

MakCHS, Infectious Diseases Institute and University of Minnesota upon over 15 years of sustained research on Cryptococcosis which is major cause of death among HIV-infected individuals with AIDS. Several sessions on key subjects were hosted including genetics and genomics, cell biology and development, Clinical Science and disease manifestation, and drug development and clinical trials; among others.



In the Picture, Prof Barnabas Nawangwe, Vice Chancellor (Center), Prof Damalie Nakanjako Principal CHS, Dr Andrew Kambugu,
Director IDI and several international collaborators



At the 11th ICCC meeting, the Conference chairs Prof David Meya, Makerere university, and Prof David Boulware, University of Minnesota, honored Prof Harriet Mayanja-Kizza for her distinguished research and service in the field of infectious diseases in Africa



Honorable Margaret Muhanga Mugisa, Minister of State for Health in charge of Primary Health Care officiated at the 11th International Conference on Cryptococcus and Cryptococcosis (ICCC) that was hosted by Makerere University College of Health Sciences in collaboration with the University of Minnesota.

KNOWLEDGE TRANSFER PARTNERSHIPS

7.0 KNOWLEDGE TRANSFER PARTNERSHIPS.

7.1 University Hospital: Launched the Audiology centre that is management by Ear, Nose and throat (ENT) specialists at the School of Medicine, Makerere University.







MakCHS staff with hospital directors of all hospitals that participate in clinical training at Makerere Hospital

7.2 Clinical Training in Uganda

Makerere University College of Health Sciences held an extra ordinary meetings with all directors of hospitals where Mak CHS students train



MakCHS staff with hospital directors of all hospitals that participate in clinical training at Makerere Hospital





Makerere University represented by MakCHS gave appreciation certificates to the Hospital Directors for the great cordial training collabrations they have with Makerere University



The director Clinical services. Ministry of Health, together with Professor Omaswa, former Director General of Health Services and Executive Director of the African Centre for Global Health and Social transformation (ACHEST) handed over a certificate of appreciation from Makerere University to the Director of the Naeonatal and Women specialized hospital Dr Nabunya for their invaluable collaboration in clinical training at Makerere University

Hospital directors discussed with MakCHS the challenges faced with training large numbers of students from all medical schools that come to Mulago hospital as their teaching hospital. The team proposed to have a clinical training advisory group that provides advise to government (Ministry of Health, Ministry of Education, Ministry of Public Service, Ministry of Finance, among others) to maintain high quality health care standards in the country in order to have a productive wealthy economy where individuals have more productive days at work without spending a lot of time and money looking after relatives in hospitals.

7.3 Locally, MakCHS continues to collaborate with several partners in training,

Including Mulago National Referral Hospital, National Women and Neonatal specialized hospital, Kawampe Hospital, Butabika Hospital, Uganda Heart Institute and Uganda Heart Institute; among others. MakCHS organized a meeting with all the hospital directors to discuss key issues in maintaining the highest quality of clinical care and clinical training at each of these training sites. Among other things, all hospital directors recommended that Memoranda of understanding should be developed with these government hospitals so that the MOUs are signed off by the Ministry of Health and Ministry of Education.





Clinical training at Mulago Hospital. Medical students interacting with Die=rector Mulago Hospital board and Executive Director



Clinical training at Mulago Hospital



Mulago hospital continues to provide a clinical training environment for Makerere University medical school since its inception



The head of Department of Radiology at MakCHS hosted a a=end of year party and bid fairwell to Dr Okello-Omara who retired after 15 years of service in the department. The occasion was graced by the Dean School of Medicine, Assoc. Prof Annettee Anakimuli and the Ag. Executive Director Mulago Hospital Dr Rosemary Byanyima



College Of Health Science students at an orientation and mentorship activity dapped, "white coat" ceremony. Dr Sabrina Bakeera-Kitaka and Mr Bruce Twesigye the Registrar togther with the students

7.4 Research collaboration with Mbarara University of Science and Technology (MUST).

To build capacity for schostosomiasis research training; a collaborative research program led by Professors Damalie Nakanjako at MakCHS and Alison Elliott at Uganda Virus Research Institute/ Medical Research Council. The schistosomiasis research groups at UVRI, MakCHS and MUST are working together to develop a comprehensive research training program.



The MakCHS team was well received by the Vice Chancellor Mabarara University, Professor Celestino Obua and a stakeholders's meeting was held under the leadership of Dr Tolo a malacology scientist at MUST.



Medical students training at Mulago hospital, neurolosurgery ward, together with the Chair of the board and the executive director of Mulago hospital

7.5 Launch of the East Africa FAIMER Regional Institute

On the 10th May 2023, the Foundation for Advancement of International Medical Education and Research (FAIMER), East Africa FAIMER Regional Institute (EAFRI) was launched at a colourful ceremony held at the Makerere University College of Health Sciences (MakCHS). The EAFRI

will operate a multilateral partnership model, with MakCHS, serving as a host institution and Mbarara University of Science and Technology (MUST), Faculty of Medicine, serving as MakCHS's regional partner. Professor Sarah Kiguli from MakCHS will serve as Director of EAFRI assisted by Professor Samuel Maling from MUST as Associate Director.



L-R: Dr. Rashmi Vyas, Director Global Programmes – FAIMER; Professor Damalie Nakanjako, Principal MakCHS; Professor Sarah Kiguli, Director EAFRI; Dr. Samuel Maling, Associate Director – EAFRI; Dr. Joseph Ngonzi, Dean – Faculty of Medicine, MUST; Dr. Ron Blank, Director Strategy – FAIMER

MakCHS was competitively awarded to host the EAFRI making it the 10th regional FAIMER institute established across the world alongside the ones in Chile, China, Egypt, India and Indonesia. Since its establishment in 2000, FAIMER has to-date trained 2000 Fellows in 55 Countries world-wide. It is expected that the EAFRI will expand FAIMER's reach to promote health professions education and workforce development in additional areas of interest and bring service closer to participants in the region. The first cohort of 12-15 fellows for the EAFRI is expected in August 2023 selected through a competitive application process and the tuition for will be free.

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, Democratic Republic of Congo, Burundi, Rwanda and Mauritius. EAFRI will also consider applicants from other regions of Africa. The core curriculum of EAFRI will be based on that of the International FAIMER Institute based in Philadelphia, U.S.A, which teaches education methods, leadership & management, education scholarship & research, and project management and evaluation.

7.6 The Health Professions Education Conference – 2023:

The Health Professions Education Conference - 2023 themed, 'Health Professions Education for Improved Health Outcomes' was held on the 11th to 12th May 2023 with calls from stakeholders for competency-based education, quality assurance in training institutions, partnerships and enhanced supervision. The conference was organised by Health Professional Education Partnership Initiative (HEPI-SHSSU) and the East African Health Professionals Educators Association (EAHPEA).

HEPI-SHSSU is an NIH funded project hosted by Makerere University College of Health Sciences (MakCHS) working in partnership with Busitema University, Kabale University, Clarke International University, Mulago School of Nursing and Midwifery, Yale University, John Hopkins University and African Centre for Health and Social Transformation (ACHEST). The vision of the HEPI-SHSSU partnership is to transform Health Professions Education (HPE).



Group Photo: Participants at the Health Education Professions Conference 2023

The keynote address was read by Dr. Sanny Okuruafo, Technical Advisor – WHO Uganda Office who represented Dr. Yonas Tegegn Woldermariam - WHO Representative in Uganda. The address gave insights of why the health workforce is a key enabler for achieving the health-related sustainable development goals considering their role in ensuring health and wellbeing of the population; how Competency-based education is the foundation for training health workers to address the contemporary health needs of populations; and the discourse on competency – based education in recent

years and how the Global Competency and Outcomes Framework for Universal Health Coverage was birthed in 2022.

Professor Barnabas Nawangwe, Vice Chancellor – Makerere University commended HEPI-SHSSU and MakCHS for convening HPE stakeholders to deliberate on this important issue.

7.7 Collaboration with University of Utah

Makerere University signed a memorandum of understanding with University of Utah, USA to support training in the Department of Radiology, School of Medicine. Under this collaborative framework, an external examiner from University of Utah was hosted by the department of Radiology and School of Medicine





Faculty and trainees from the Department of Radiology, together wth the Dean School of Medicine, Assoc. Prof Nakimuli and the Head of Deapartment Dr Ritah Nassanga hosted the External Examiner from University of Utah, USA

The External examiner also donated three suitcases of Radiology textbooks to support training of the Bachelor of Science in Medical Radiography, Masters in Radiology and Radiotherapy, as as the specialized training at sub-specialty level





Students and faculty in the department of Radiology receiving books that were donated through the collaboration with University of Utah, USA.

7.8 MakCHS faculty and students participated in a surgical camp that was hosted by Mulago hospital



7.9 Uganda National Academy of Sciences:

Scientists at the Makerere University College of Health Sciences continue to contribute nationally and globally to the evidence to improve health interventions. Professor Damalie Nakanjako was inducted as a fellow of the Uganda National Academy of Science (FUNAS) in recognition for the contribution her research has made to the understanding and care of chronic HIV/AIDS and co-infections. Professor Anneettee Nakimuli was also inducted as a FUNAS in recognition of the contribution her research has made to the management and prevention of pre-eclampsia, one of the leading causes of maternal mortality in sub-Saharan Africa. Dr Suzanne Kiwanuka was inducted as a FUNAS in recognition of her numerous contributions to health systems strengthening and policy interventions, as well as Dr Rujumba for his contributions to understand socio-behavioral determinants of health and health interventions.



7.10 The Sickle Cell Diseases research team

Led by Professor Sarah Kiguli held a stakeholder engagement meeting to raise community awareness of the disease and the available modes of care and management to help sticklers and their families live better quality of life. The event was graced by the Vice Chancellor of Makerere University, Professor Barnabas Nawangwe.



7.11 Waste Disposal Envelopes for self-injectables launched

On the 16th March 2023, Disposal Envelopes for self-injectables were launched at the PATH Offices, Kampala, Uganda. The innovation was developed by the Biomedical Engineering research group in the Department of Physiology,

School of Biomedical Sciences, College of Health Sciences, Makerere University. The research group including researchers and students headed by Dr. Robert Ssekitoleko developed the envelopes in collaboration with partners based at

Case Western Reserve University (CWRU), Ohio, U.S.A. The initial consignment of the envelopes was donated to PATH for distribution to users. The launch was attended by researchers, students, from Makerere University, CWRU and PATH staff.



Launch of waste disposal envelopes: 4th left Dr. Robert Ssekitoleko, Coordinator - Biomedical engineering research group, MakCHS 2nd right Dr. Robert Mutumba, Principal Medical Officer - Ministry of Health; CWRU and PATH officials look on

The teams at Makerere University and CWRU were guided by the consideration for cost effective solutions which are also good for the environment. The envelopes which are biodegradable costs Ushs140 as compared to plastic containers sold at Ushs250. They also think that this is an era of self-care and self-injectables like family planning used by women and mothers reduce stigma towards use therefore the disposal envelopes allow for safe disposal.

The envelopes were officially launched by Dr. Robert Mutumba, Principal Medical Officer-Clinical Services, Ministry of Health (MoH), Uganda who represented the Chief Guest, Dr. Charles Olaro – Director, Clinical Services, MoH. In his remarks, Dr. Mutumba thanked the collaborators (Makerere University, CWRU) for delivering this innovation and appreciated PATH for nourishing the partnership in hosting the event and spearheading the distribution of the envelopes in the communities. He also appreciated the academia and students as great contributors to national development through research noting that Covid19 exposed the importance and necessity of self-care.



Professor Barnabas Nawangwe (2nd left), Vice Chancellor – Makerere University with students at the Health Professions Education Conference 2023

7.12 Alumni of 1973 Class visit MakCHS

It was a jovial mood at MakCHS when the Class of 1973 visited the College on Monday, 17th April 2023. The alumni led by Dr. Joel Okullo were nostalgic about the good times at the Makerere Medical School which they joined in 1969 and graduated in 1973. The group from Uganda, Kenya and Tanzania were representative of members who had studied for the Bachelor of Medicine & Bachelor of Surgery offered at Makerere University College as a constituent college of the then University of East Africa alongside.

The alumni in partnership with Airtel Uganda offered to provide internet access at all the COBERS sites where students are posted to serve in the communities. The alumni are doing this in recognition of the importance of e-learning, e-medicine, research and internet in today's professional setting.



Group Photo: Class of 1973 with MakCHS leadership, staff during their visit, first left: Professor Isaac Kajja, Deputy Principal - MakCHS

The alumni explained that a total of 120 students were admitted for the programme in 1969 however after the expulsion of Asians in 1972 and the instability in Uganda in the 1970s, only 57 graduated and of these 12 have since passed on. They have specialised in various areas of medicine and settled in many countries across the world.

A meeting was held between the visitors and MakCHS leadership including Deputy Principal, Deans, Heads of Departments and Administrative staff. In his remarks to the visitors, Professor Isaac Kajja – Deputy Principal, MakCHS who represented the Principal welcomed the alumni

to the college. He explained that while in the 1960s and 1970s the then Medical School was only training doctors with admissions of 50 to 100 students; MakCHS is now a college with 5 schools, 29 departments and has a population of 3400 students in various fields including medicine, nursing, dentistry, pharmacy, biomedical among others.

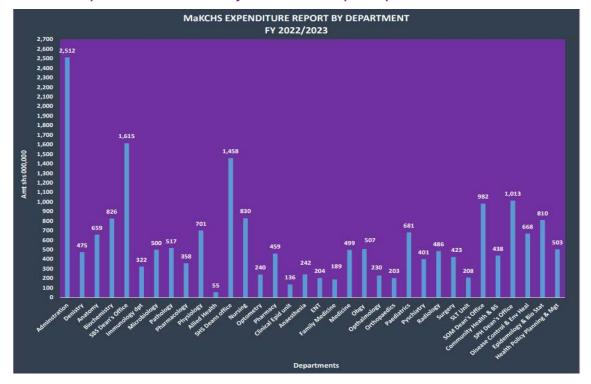
After the meeting, the visitors toured facilities of the college including the Library, Department of Anatomy, Dean-School of Medicine' office, laboratories and lecturer theatres. The also visited Mulago National Referral Hospital.

BUDGET AND BUDGET PERFORMANCE AT MAKCHS FOR FINANCIAL YEAR 2022/2023

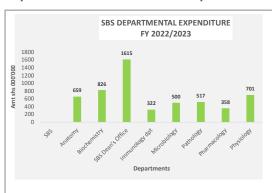
BUDGET AND BUDGET PERFORMANCE AT MAKCHS FOR FINANCIAL YEAR 2022/2023 SCIENCES 8.0

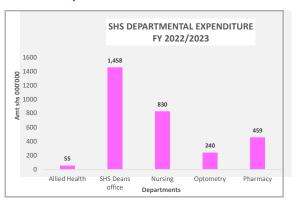
Code	Description	Budget	Expenditure	Budget utilization rate (%)
211106	Allowances	745,000,000	745,000,000	100.00
212103	Incapacity benefits (Employees)	9,200,000	9,200,000	100.00
221001	Advertising and Public Relations	7,460,000	7,460,000	100.00
221003	Staff Training	30,300,000	30,299,708	100.00
221007	Books, Periodicals & Newspapers	8,000,000	8,000,000	100.00
221008	Information and Communication Technology Supplies.	178,319,825	178,318,955	100.00
221009	Welfare and Entertainment	234,000,000	234,000,000	100.00
221011	Printing, Stationery, Photocopying and Binding	212,625,000	212,621,219	100.00
221012	Small Office Equipment	15,000,000	15,000,000	100.00
221017	Membership dues and Subscription fees.	12,500,000	12,500,000	100.00
222001	Information and Communication Technology Services	187,200,000	187,200,000	100.00
222002	Postage and Courier	4,704,000	4,704,000	100.00
223001	Property Management Expenses	64,000,000	64,000,000	100.00
223004	Guard and Security services	36,000,000	35,992,878	99.98
224001	Medical Supplies and Services	380,727,814	380,727,386	100.00
224008	Educational Materials and Services	1,936,534,973	1,935,042,973	99.92
226001	Insurances	14,000,000	13,525,710	96.61
227001	Travel inland	70,000,000	70,000,000	100.00
227003	Carriage, Haulage, Freight and transport hire	8,000,000	7,930,000	99.13
227004	Fuel, Lubricants and Oils	122,000,000	122,000,000	100.00
228001	Maintenance – Buildings and Structures	55,400,000	55,395,500	99.99
228002	Maintenance – Transport Equipment	165,200,000	165,200,000	100.00
228003	Maintenance – Machinery & Equipment Other than Transport Equipment	142,000,000	141,999,780	100.00
228004	Maintenance – Other Fixed Assets	85,300,000	85,300,000	100.00
Total		4,723,471,612	4,721,418,109	99.96

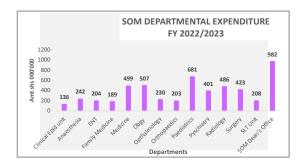
Financial Expenditure for financial year 2022/2023 per department

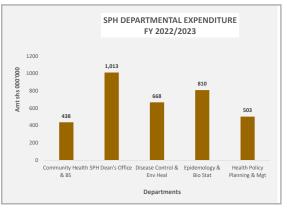


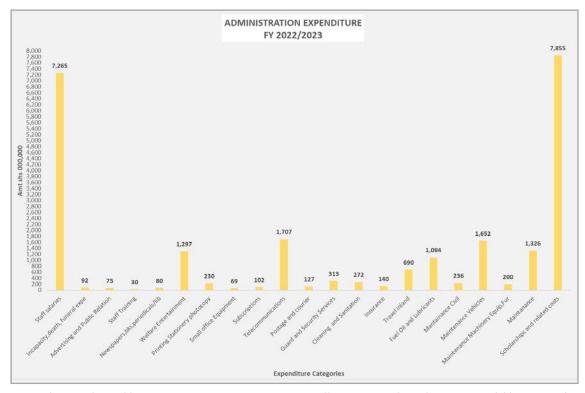
Expenditure for each of the departments within the respective schools











The main cost drivers of funds are the college level are contract staff and scholarly funds for COBERS activities and thesis examiners for graduate students.

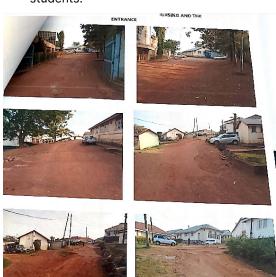
The major cost drivers at MakCHS are education materials and services. Given that most of our programs are clinically based, we still do not have sufficient funds to buy all clinical training materials at the different hospitals and laboratories where MakCHS students train. Much of this covered through the government funding to the hospitals and collaborative research programs, as much as possible to support our students to get a rich training experience. Similarly, transporting students to the different training hospitals has also been a major cost drive particularly with the escalating fuel prices.

INFRASTRUCTURE DEVELOPMENTS

9.0 INFRASTRUCTURE DEVELOPMENTS

MakCHS endeavours to undertake periodic maintenance of its facilities in order to provide a conducive environment for teaching and learning. In this report period, the following work was accomplished.

- 9.1: Repair and maintenance of Lecture rooms: More lecture rooms have been renovated including the Davies Lecture Theatre and all have been fitted with video-conferencing facilities to support blended learning, webinars, online theses defences, grandround and other copllaborative virtual meetings woth the global community in our mandates of education, health care delivery and research.
- 9.2 Access Road and Parking to Albert Cook Library through gate 2 (opposite Galloway house) was repaired and the drainage system that was washing soil onto lower areas of the MakCHS campus and creating potholes. Road had potholes that have been removed and replaced with tarmac and expanded Parking slots for the departments in that area, to provide an improve working and studying environment for staff and students.



Before renovation of the college access opposite Galloway





Repaired access road and parking in use

9.3 Student Lobby: Removal of the clutter and the photocopying businesses to repurpose the area into a student lobby.

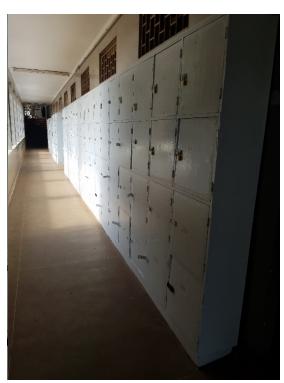


Refurbished students' lobby

9.4 Student Lockers in Pathology and Anatomy buildings were re-furbished to allow students to keep their materials safe a s they go the laboratories and wards for practical training.



Pathology Students' Lockers



Anatomy Students' Lockers

9.5 Student Toilets were repaired to solve the problem of poor sanitation for students in the college





Students' Toilets

9.6 Renovation of Davies Lecture Theatre which has also been fitted with visual audio-equipment for facilitate all blended learning activities including; virtual lectures, grandrounds, webinars and doctoral defence













9.7 Furnishing of college conference room and board room to which has also been fitted with visual audio-equipment for facilitate all blended learning activities including; virtual lectures, grandrounds, webinars and doctoral defence





CHALLENGES

10.0 CHALLENGES

- 1. The college faces major human resource limitations, particularly in departments which have over 40% vacant positions and the teacher: student ratios are currently below the expected for these practical courses. We therefore propose affirmative action to support recruitment of staff especially in the pre-clinical years to give the students a better learning experience. Similarly, there are vacant positions of support staff such as cleaners and department secretaries that have not been replaced as they recovered over the years and this is causing great limitations in the efficiency of operations as academic staff get stretched to perform the support services as well.
- 2. The college faces great space limitations of teaching laboratories and office space for faculty, and we have submitted requests to revamp and build a seven-level laboratory teaching facility that was estimated at 40 billion UGX. It is our prayer that this is fast-tracked in line with the presidential recommendation to re-vamp medical schools so that we meet the standards of medical schools in the region.
- Advances in health care, health professions education and research have exposed that fact that
 the MakCHS staff establishment has not matched the growth in the field. Recommendations for
 a revised staff establishment were submitted to the re-structuring committee of the university
 council and we are looking forward to favorable feedback.
- 4. Many clinical departments at CHS are failing to recruit lecturers for lecturer positions advertised for clinical departments, requiring a PhD because clinical specialists and consultants who train both medical students and master of Medicine students do not require to have a PhD. This has been raised among other reasons to the University Council to reconsider the clinical scholar policy back to the revised human resource manual to take care of the unique nature of clinical scholars and we pray for due consideration of this matter.
- 5. The number of graduate students continues to increase in our graduate programs but we are unable to admit up to 60% of our graduate applicants because of limited infrastructure for clinical training; hence the need to fast-track the development of the Makerere university Teaching hospital to expand our clinical training and research platform to meet the increasing need for specialized services in the country.



FUTURE PLANS

11.0 FUTURE PLANS

In addition to running the existing academic programs and increase further the proportion of graduate students, MakCHS plans to implement its recently revised research agenda for 2023-2040 which is aligned to the NDP III and the sustainable development goals.

Thematic Areas for 2023-2040 Research Agenda in Order of Priority*			
1	Infectious Diseases and Neglected Tropical Diseases (using the One Health approach)		
2	Translational Science and Biomedical Research & Discovery & Genetic research (including pre-clinical studies, product development & commercialization)		
3	Population Health, Climate change, health systems research, urbanization & health, pollution		
4	Non-Communicable Diseases		
5	Maternal, child and adolescent health, Sexuality research		
6	Mental Health		
7	Digital Health, Artificial Intelligence and Big Data applications		
8	Professionalism, health professional education, ethics and medico-legal		

- *Multi-disciplinary (including socio-behavioral studies), multi-sectoral and collaborative approach to research including a One Health approach to integrate the human-animal-environment interface are highly recommended for optimal implementation of the MakCHS research agenda 2023-2040 to contribute to progress towards the national development plan and the sustainable development goal
- Operationalization of the research support center infrastructure and functions. These will be operationalized to have a one-stop research support centre to improve efficiency of all research support functions including accounts, procurement, information technology, grants management, knowledge translation and community engagement and research communication
- Proposed Infrastructure Development
 Proposed teaching laboratory facility at
 College of Health Sciences as a one stop
 centre to promote pre-clinical teaching,
 research and discovery. This is a government
 of Uganda initiative following a presidential
 directive to improve infrastructure in the
 medical school and Dental School, as
 recommended by the East Africa Medical
 and Dental Practitioners' Council

The proposed level facility has already been evaluated the Makerere University Estates and Works Department and will be funded under Korean Education Project V

In the picture the Korean Education Project V visited College of Health Sciences in December 2023 to visit the site for the proposed building and they will return by February 2024



SERVICES OFFERED AT MAKERERE UNIVERSITY HOSPITAL, MakCHS

12.0 SERVICES OFFERED AT MAKERERE UNIVERSITY HOSPITAL, MakCHS

Background: Prior to 1972, the university maintained a health known as Makerere University Students Health Service or Sick Bay at main campus. In 1972, the university acquired the premises formerly known as Nile Nursing Home. The university Sick Bay relocated to the new premises. On 16 February 1978, the

President then crowned the Sick Bay and it was upgraded to Hospital status.In 2017, the management of Makerere university Health Services (MakHS) was transferred to the College of Health Sciences (MakCHS), under the leadership of Professor Byamugisha as the Director.



Laboratory services



Laboratory services In Dec 2023, Mak Hospital ENT Dept together with NYU performed the first Cochlear implant of its kind in Uganda.



Temporal bone Laboratory, for training ENT Department graduate students



ENT Department Audiology Unit

Before Renovations





After Renovations





STATE OF THE ART OPTOMETRY SERVICES

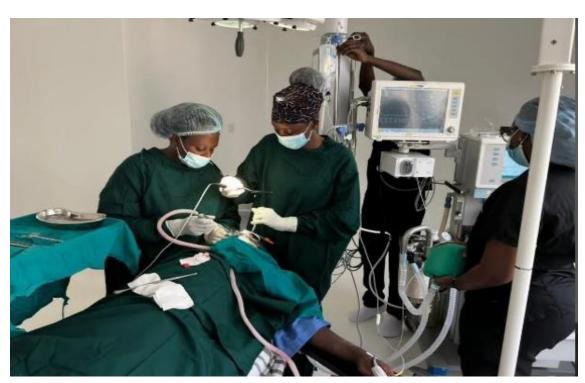






Vaccination Services

Tetanus Diphtheria vaccine
Hepatitis B vaccine
HPV vaccine
Rotavirus vaccine
DPT
Pneumococcal Vaccine
Oral Polio Vaccine and
IPV
Yellow Fever Effective
15th Jan 2024



Operating theatre







Dental hospital and dental school

CHS RESEARCH PUBLICATIONS FOR 2023

13.0 CHS RESEARCH PUBLICATIONS FOR 2023

- Nanyeenya, N., Chang, L. W., Kiwanuka, N., Nasuuna, E., Nakanjako, D., Nakigozi, G. ... & Makumbi, F. (2023). The association between low-level viraemia and subsequent viral non-suppression among people living with HIV/AIDS on antiretroviral therapy in Uganda. PloS one, 18(1), e0279479.
- Nalukenge, C., Sebabi, F. O., Okello, B., Ntende, J., Nakiyingi, L., Nakanjako, D. ... & Musika, A. A. (2023). Factors associated with ocular injuries among adult road traffic accident patients presenting at Mulago National Referral Hospital, Uganda. African Health Sciences, 23(2), 451-8.
- Nanyeenya, N., Nakanjako, D., Makumbi, F., Nakigozi, G., Nalugoda, F., Kigozi, G. ... & Kiwanuka, N. (2023). Effectiveness of intensive adherence counselling in achieving an undetectable viral load among people on antiretroviral therapy with lowlevel viraemia in Uganda. HIV medicine.
- Kasprowicz, V. O., Jeffery, C., Mbuvi, D., Bukirwa, V., Ouattara, K., Kirimi, F. ... & Ndung'u, T. (2023). How to improve research capacity strengthening efforts: learning from the monitoring and evaluation of four research consortia in Africa. Health Research Policy and Systems, 21(1), 109.
- Nimwesiga, C., Taremwa, I. M., Nakanjako, D., & Nasuuna, E. (2023). Factors Associated with Retention in HIV Care Among HIV-Positive Adolescents in Public Antiretroviral Therapy Clinics in Ibanda District, Rural South Western Uganda. HIV/ AIDS-Research and Palliative Care, 71-81.
- Kiragga, A. N., Najjemba, L., Galiwango, R., Banturaki, G., Munyiwra, G., Iwumbwe, I., ... & Nakanjako, D. (2023). Community purchases of antimicrobials during the COVID-19 pandemic in Uganda: An increased risk for antimicrobial resistance. PLOS Global Public Health, 3(2), e0001579.
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The College of Health Sciences is Located on Mulago Hill, which is 3 Km from Kampala City Centre.

Office of the Principal,
Makerere University College of Health Sciences,
P. O. Box 7072, Kampala, Uganda.
Tel: (+256) 414 530 020
Email: pr@chs.mak.ac.ug or
the College Principal directly at principal@chs.mak.ac.ug