

College of Health Sciences

School of Dental Sciences

Introduction

The School of Dental Sciences started from a humble beginning in 1974 as a department (The Department of Dental Surgery) in the then Faculty of Medicine. The first group of eighteen (18) students was admitted in 1974 to pursue the course leading to the degree of Bachelor of Dental Surgery (BDS) of the University of Nairobi. To facilitate its inception and growth, the department acquired and renovated the then building structures for the former Princess Elizabeth Maternity in 1977 with financial and material support from the Government of the Federal Republic of Germany.

The aim was to have a university teaching dental hospital. Initially, the department had only nine (9) dental units and would thereafter grow to have fifty two (52) dental units distributed in various clinics. In 2009, three units were added for purposes of Income Generation at the plaza wing bringing the total to fifty five (55). The Dental plaza provides dental services to clients who prefer not to be treated in the teaching clinics

The School is mandated to train oral health professionals not only to satisfy the national needs but also the needs of East and Central African Countries at both undergraduate and specialist levels.

In 1996, ward, major and minor theatres were opened and became operational to complete the Dental Hospital complex where even complex oral maxillofacial and reconstructive surgical procedures are performed. Continued growth of the School depends on its ability to attract and efficiently utilize limited resources.

Constituent Departments

The School has four (4) Departments namely:

1. Oral/Maxillofacial Surgery/Oral Medicine/Pathology and Oral/Maxillofacial Radiology
2. Conservative and Prosthetic Dentistry
3. Paediatric Dentistry and Orthodontics
4. Periodontology/Community & Preventive Dentistry

Programmers Offered

1. Degree in Bachelor of Dental Surgery (BDS)
2. Master of Dental Surgery (MDS) in Paediatric Dentistry
3. Master of Dental Surgery (MDS) in Periodontology
4. Master of Dental Surgery (MDS) in Prosthodontics
5. Master of Dental Surgery (MDS) in Oral & Maxillofacial Surgery
6. Doctor of Philosophy (PhD) in Dentistry

Enrolled Students

Year	Under-graduates	MDS (Masters)	PhD
Year 1	72	21	2
Year 2	44	17	
Year 3	41	5	
Year 3	44	4	
Year 4	31		

International Students

Programme	No. of Students
Bachelor of Dental Sciences	7
Paediatrics Dentistry	1
Periodontology	1
Oral and Maxillofacial Surgery	4
Prosthodontics	

No. of Graduands in 2020

Bachelors - 25

Masters - 5

Staff Portfolio

Rank	No. of Staff
Professor	2
Associate Professors	6
Senior Lecturers	13
Senior Assistant Registrar	1
Lecturers	16
Chief Technologist (Lect. Equiv)	3
Tutorial Fellows	10
Senior Technologist/Technicians (DEF)	4
Technologist (ABC)	8
Accountants Assistant	1
Secretary	3
Nursing Officers	27
Dental Hygienist	1
ICT	2
Health Record and Information Technologist	1
Driver	1
Pharmaceutical Technologist	1
Radiographers	2
Caretaker	1
Messengers/Cleaners	7

International Links and Collaborations

- i) Collaboration with Maharishi Markandeshwar University
- ii) University of Washington, Seattle
- iii) Columbia University, New York

Research Activities Year 2020

(a) Postgraduate Research

1. Oral Health Status and Treatment needs among 12-17 year old Juvenile Prisoners in Nairobi City and Kiambu Counties.
2. Oral Health Status and treatment needs among Paediatric Oncology patients at Kenyatta National Hospital.
3. A Randomized Clinical Trial comparing the hall technique and ART in restoring proximal carious lesions on primary molars of 5-6 year old children in Kenya.
4. Dr Anthony K. Bii – MDS Prosthodontics research
Thesis title: Analysis of Root and Canal Morphology of Second Permanent Molars in a Selected Kenyan Population using CBCT
Supervisors – Dr Tom M. Dienya, Dr Susan W. Maina, Dr James M. Nyaga
5. Dr Silas M. Toka – MDS Prosthodontics research
Thesis title: Effect of Phosphate-bonded investment materials and their Manipulation on the Marginal fit of Cast-metal crown copings
6. Dr Marion N. Mosomi – MDS Prosthodontics research
Thesis title: Evaluation of anterior maxillary teeth proportions to determine the existence of three aesthetic guidelines in Kenyan population
Supervisors – Dr Susan W. Maina, Dr Olivia A. Osiro, Dr Ben I. Omondi
7. Dr Catherine N. Maundu – MDS Prosthodontics research
Thesis title: Evaluation of Marginal fit of fixed restorations fabricated from conventional versus digital impressions
Supervisors – Dr Olivia A. Osiro, Dr James M. Nyaga, Dr Catherine N. Gichangi
8. Dr Lydia M. Obiero – MDS Prosthodontics research
Thesis title: Oral health related quality of life among complete denture wearers at the University of Nairobi Dental Hospital
Supervisors – Dr Bernina K. Kisumbi, Dr Ben I. Omondi, Dr Cyril N. Ogada
9. Dr Diana K. Masara – MDS Prosthodontics research
Thesis title: A CBCT analysis of root and canal morphology of mandibular premolars of a select Kenyan population
Supervisors – Dr Tom M. Dienya, Dr Laura G. Edalia, Dr Benjamin N. Simiyu
10. Dr Alexander M. Mwangi – MDS Prosthodontics research
Thesis title: A comparison of manual and digital assessment using stereolithography datasets of tooth preparations for single crowns in Nairobi, Kenya
Supervisors – Dr James M. Nyaga, Dr Fred O. Otieno, Dr Olivia A. Osiro
11. Dr Elisha N. Ndakama – MDS Prosthodontics research
Thesis title: Root and canal morphology of permanent molars among a Tanzanian population of African inherent using CBCT
Supervisors – Dr Tom M. Dienya, Dr James M. Nyaga, Dr Benjamin N. Simiyu
12. Dr Umaru Kizito
Thesis title: Clinical performance of direct posterior resin-composite restorations placed over a 5-year period in selected institutions in Nairobi, Kenya
Supervisors – Dr Bernina K. Kisumbi, Dr Hazel O. Simila, Dr Fred O. Otieno
Supervisors – Dr Hazel O. Simila, Dr James M. Nyaga

13. Dr Benson K. Njuguna – MDS Prosthodontics research
Thesis title: Quality of life of patients with acquired maxillary defects following prosthetic rehabilitation over a five-year period at two referral institutions in Nairobi
Supervisors – Dr Ben I. Omondi, Dr Catherine N. Gichangi, Dr Mwirigi M. Kaaria.

(b) Staff Research

1. Dr Bernina K. Kisumbi– PhD research
Thesis title: Development, Implementation and Evaluation of a Dental Amalgam Phase Down Training Programme among Dentists in Kenya Supervisors – Dr Susan W. Maina, Dr Olivia A. Osiro
2. Dr Cyril N. Ogada– PhD research, registered at School of Public Health, University of the Witwatersrand
3. Dr Hazel O. Simila – DAAD PhD Scholarship, Germany An ecological study of the association between environmental indicators and early childhood caries.
4. Dr. Zawadi W. Ismael - Socio-demographic, clinical and histopathologic characteristics of Oral Squamous Cell Carcinoma diagnosed at two sites in Central Kenya (completed)
5. Secondary deformities of Cleft Lips and Palate presenting at three centers in Nairobi (ongoing)
6. Causes of Delayed Presentation of patients with Oral cancer at the Kenyatta National Hospital (Ongoing)
7. Outcome of treatment of patients with large mandibular continuity defects (ongoing)
8. An ecological study of the association between environmental indicators and early childhood caries.
9. Behavior change due to Covid-19 among dental Academics.
10. Governance, material well-being and early childhood caries in 3-5-year-old children.
11. The burden of oral disease in Kenya HIV-infected children.
12. Molar incisor hypomineralization, prevalence, patterns and distribution in Sudanese children.
13. Association between early childhood caries, malnutrition and anaemia: a global perspective.

Consultancies

Dental Services offered at the University Dental Plaza

Major Achievements, Challenges and Strategic Projections

Achievements

School of Dental Sciences major achievements in the year 2020

Date	Item	Department	Remarks
March, 2020	Online teaching and learning commences	All Departments, School of dental Sciences	In response to Covid-19 pandemic, most of the operations of the school including teaching and learning for all programs were transitioned smoothly to online platforms. The School conducted all Lectures theory examination through online platforms.
April, 2020	COVID-19 response committee constituted	School	The committee was tasked with responsibilities of advising the School on infection control prevention strategies in both clinics and external environments. The committee spearheaded the training for both students and staff on COVID-19 prevention protocols.

Date	Item	Department	Remarks
May, 2020	Staff Changing Rooms renovated	School/Columbia University partnership	In preparation for face to face clinical teaching resumption, two staff changing rooms on the ground floor of the School of Dental Sciences building were identified and renovated. This is to accommodate female and male staff members, and comply with Ministry of Health guidelines.
May, 2020	Installation of Backup generator	School/University of Nairobi Main	A new generator was installed. This is a big achievement because operations at the school get disrupted whenever Kenya power light goes
July, 2020	Installation of hand wash stations, automatic hand sanitizer dispensers	School/Columbia University partnership	Hand wash station outside the main Dental school building was done to ensure compliance with Ministry of Health guidelines
July, 2020	Set up of Triage centre	School/UNES	The school set up the tent for triage centre, and assigned the management to involve nurses and Registrars from all Departments in the school to reduce waiting time for patients, and appropriate referral to avoid crowding in waiting rooms within the School.
August, 2020	Purchase of Laundry Machine through staff initiative	School Staff community	An 8kg washing machine was bought through staff contributions to ensure that re-usable gowns could be laundered on site.
December, 2020	Graduation of 30 students who completed their studies in 2020	School worked with corporate to prepare students	Twenty undergraduate and five postgraduate students graduated and have proceeded to serve the country in various capacities; the newly qualified dentists are now doing internship at various government facilities while the postgraduates are serving before specialist recognition in various hospitals.
December, 2020	Hippocratic Oathing of newly qualified Dentists	School/ Kenya Medical Practitioners and dentists Council	Hippocratic oath was administered to the twenty five qualified Dentists before posting for internship
December, 2020	Completed renovation of students changing rooms	School/Columbia University partnership	Due to Covid 19 challenges, students are required to wear PPE while at the clinic. The changing rooms crucial for safety of students.

Date	Item	Department	Remarks
Continuous 2020-2021	Supply of Personal Protective Equipment (PPE) for clinical use	Principal, UNES, Equity Bank, Staff and other donations	Donations of PPEs have been received from many individuals and corporate institutions including the Principal, CHS, Equity Bank Foundation, The Deputy principal, CHS, staff at the School and UNES through the Dental Plaza.

Challenges

Among the challenges facing the Department are:-

1. Frequent and persistent shortage of consumables that adversely affect teaching as well as optimum patient care, due to convoluted and bureaucratic procurement processes and delayed payment of suppliers.
2. Worn out teaching and training infrastructure: The current clinical teaching facilities pose a real challenge since 50% of the dental units in use are obsolete and maintaining them is a daunting task. In addition, spares are not available and repairing the units is uneconomical. The dental chairs available for use are not adequate for the number of students admitted.
3. No operating ambulance and or utility vehicle that adversely affect other services such as food delivery and transport of linen to and from laundry.
4. The laboratory facilities are inadequate. Diagnostic and teaching services occupy the same space in the Oral Pathology laboratory, which compromises the safety of students who are taught in the same area where potentially toxic reagents are processed. The department acquired 6 new microscopes in the year 2019 but most of the challenges remain.
5. Lack of research funding and low compensation.
6. Lack of staff promotion.
7. Disruption of Hospital services when there is unscheduled closure of teaching services.

Strategic Projections

Registration and Recognition of Dental Hospital

1. Registration and Recognition of the University Dental Hospital as a National Teaching Referral Hospital by Kenya Medical Practitioners and Dentists Council.
2. Improved Dental Care at the Teaching Outpatient Clinics
In the year 2020, 1579 dental outpatient cases were attended in the clinics. The teaching hospital remained closed during the COVID 19 break (March and July 2020).
3. In year 2021, the focus is to review operational logistics in the clinics with view to increasing the number of patients receiving outpatient services.

Publications

1. Edalia L, Simiyu B, Kaaria M, Kisumbi B, Dienya T. Prevalence of Endodontic disease in a Dental Hospital in Kenya. *KDA Journal*. 2019.
2. B.K. Kisumbi. Phase Down and implementation of the minnamata convention on mercury in Kenya. *KDA Journal*. 2019.
3. Benjamin Simiyu, Kaaria Mwirigi, Laura Edalia, Bernina Kisumbi, Tom Dienya. Post treatment

endodontic disease among patients seeking treatment at a referral dental hospital in Kenya. Endodontics. February 2020.

4. Osiro O.A., Kisumbi BK, Kariuki D.K., Gathece LW. Implications of the Minamata Convention on Mercury on Oral Health in Kenya. *Kenya Policy Briefs*. January 2020.
5. Ben I Omondi, Fredah Chepkwony, Rael M Ariemba, Josephat O. Miyogo, Gladys N. Opinya. Prosthodontic Rehabilitation of a Child with Ectodermal Dysplasia: A Preliminary Report. *International Journal of Prosthodontics*. 2019.
6. Sumbi IM, Edalia LG, Mua B. Dental jewellery and oral piercings: Knowledge, attitude and practice among dentists in Nairobi. *Journal of Kenya Dental Association*. 2019.
7. Kaaria M.M, Nyaga J.M. Rehabilitation with Maxillary Obturator Prosthesis Following Bilateral Total Maxillectomy for Adenoidcystic Carcinoma: A Case Report. *Journal of Kenya Dental Association*. 2019.
8. Kisumbi B.K. Editorial - Dental Jewellery, intraoral and perioral tissue piercing. *Journal of the Kenya Dental association*. 2020.
9. Benjamin Simiyu Nyongesa, Katrina G. De Luna, Grace Ellen S. Dey, Iluminada L. Viloría. Management of a severely curved canal with Proglider and Wave One gold compounded with a separated instrument. *Oral Rehabilitation and Dentistry*. 2019.
10. Benjamin S. Nyongesa BDS, Katrina G. De Luna DMD MScD, Phides P. Alcorta. Management of a Combined Endodontic-Periodontal Lesion. *Endodontic Society of the Philippines Journal*. 2019.
11. Omanga A.O, Mua .BN, Edalia L.G, Gakonyo J. Adherence to professionalism and ethical practice on social media among dentists in Nairobi. *East African Medical Journal*. 2019; 96:2700-2708.
12. Mosoti M.C, Gathece L.W, Dienya T, Wagaiyu EG. Utilization of computerized systems among dentists in Nairobi County. *Journal of the KDA*. 2019. 10(3):752-759.

Corporate and Community Outreach Activities

In the year 2020, despite prevailing COVID-19 challenges, the School mounted 4 successful Dental Community outreach service activities. In each of these, members of the public benefited from free dental treatment given by the school.

School of Medicine



School of Medicine, College of Health Sciences (Kenyatta National Hospital Campus)

Introduction

Dean of the School: Prof. Fredrick C.F. Otieno, MBCHB, MMEd, (Nairobi), FRCP

The School of Medicine was started on 3rd July 1967 and was officially inaugurated on 7th March 1968. The Clinical Departments of the School are situated at Kenyatta National Hospital while the Pre-Clinical Departments are housed at the Chiromo Campus.

The School offers courses of study leading to the award of degrees of Bachelor of Medicine, Bachelor of Surgery, Bachelor of Science in Biochemistry, Bachelor of Science in Medical Laboratory Science and Technology, Bachelor of Science in Medical Physiology, Bachelor of Science in Human Anatomy, Master of Medicine, Master of Science, Doctor of Philosophy, Doctor of Medicine and Postgraduate Diplomas.

Constituent Departments in the School

- | | |
|---|-----------------------------------|
| i) Anaesthesia | viii) Medical Physiology |
| ii) Biochemistry | ix) Obstetrics and Gynaecology |
| iii) Clinical Medicine and Therapeutics | x) Ophthalmology |
| iv) Diagnostic Imaging and Radiation Medicine | xi) Orthopaedic Surgery |
| v) Human Anatomy | xii) Paediatrics and Child Health |
| vi) Human Pathology | xiii) Psychiatry |
| vii) Medical Microbiology | xiv) Surgery |

School of Medicine also has Seven Thematic Units namely:

- | | |
|-----------------------------|---------------------------------------|
| i) Anatomic Pathology, | v) Haematology and Blood Transfusion, |
| ii) Clinical Chemistry, | vi) Immunology and |
| iii) Clinical Pharmacology, | vii) Neurosurgery |
| iv) E.N.T. | |

Programmes and Services Offered

1. Master of Medicine in Anaesthesiology
2. Master of Medicine in Diagnostic Radiology
3. Master of Medicine in ENT Surgery
4. Master of Medicine in General Surgery
5. Master of Medicine in Human Pathology
6. Master of Medicine in Internal Medicine
7. Master of Medicine in Neurosurgery
8. Master of Medicine in Obstetrics and Gynaecology
9. Master of Medicine in Ophthalmology
10. Master of Medicine in Orthopaedic Surgery
11. Master of Medicine in Otorhinolaryngology, Head & Neck Surgery
12. Master of Medicine in Paediatric Surgery
13. Master of Medicine in Paediatrics and Child Health
14. Master of Medicine in Plastic, Reconstructive and Aesthetic Surgery
15. Master of Medicine in Psychiatry
16. Master of Medicine in Thoracic and Cardiovascular Surgery
17. Master of Medicine in Urology
18. Master of Medicine in Radiation Medicine
19. Master of Science in Biochemistry
20. Master of Science in Clinical Chemistry
21. Master of Science in Clinical Cytology
22. Master of Science in Clinical Psychology
23. Master of Science in Human Anatomy
24. Master of Science in Medical Microbiology
25. Master of Science in Medical Physiology
26. Fellowship in Clinical Infectious Diseases
27. Fellowship in Gynaecological Oncology
28. Fellowship in Medical oncology
29. Fellowship in Paediatric Anaesthesia
30. Postgraduate Diploma in Clinical Audiology & Public Health Otology
31. Postgraduate Diploma in Psychiatric Social Work
32. Postgraduate Diploma in Psychoactive Substance Abuse
33. Postgraduate Diploma in Psychotrauma Management
34. Bachelor of Medicine and Bachelor of Surgery
35. Bachelor of Science in Biochemistry
36. Bachelor of Science in Human Anatomy (Intercalated)
37. Bachelor of Science in Medical Laboratory Science & Technology
38. Bachelor of Science in Medical Physiology (Intercalated)
39. Higher Diploma in Medical Diagnostic Ultra Sound
40. Diploma in Audiology and Public Health Otology

Major Milestones and Strategic Issues

Major Achievements

1. Growth of Dental, Pharmacy from inception as departments at the Faculty of Medicine in 1974 to fully fledged Schools with diverse Undergraduate and Post-graduate Academic Programs in 1995.
2. Growth of department of Nursing sciences from inception as a department of Advanced Nursing in 1968 to fully fledged School with diverse Academic programs in 2006.
3. Development of long-term vibrant research collaborations and linkages; Universities of Manitoba Canada; Washington (USA), Maryland (USA), Ghent (Belgium); Oxford (UK) among others.
4. Initiation of KAVI; Currently hosting 1 of 3 HIV vaccine research laboratories in Africa & are the first site for phase 1 and 2 vaccine trials in Africa.
5. Elevation of department of community health to fully fledged school of public health in September 2010
6. Establishment of University of Nairobi Institute of Tropical and Infectious Diseases (UNITID), with an ultra-modern level III laboratory in 2003, the 3rd of its kind in Africa currently undertaking research and training geared towards management and control of infectious diseases, as well as emerging and reemerging pathogens especially the viral haemorrhagic fevers.

Students Enrolled

Undergraduate Enrolment (2019/2020 Academic Year)

Program	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Bachelor of Medicine and Bachelor of Surgery	399	307	511	551	272	263	2,303
BSc. Biochemistry	58	34	47	41	-	-	180
BSc. MLST	41	36	28	38	-	-	143
Total							2,626

Postgraduate Enrolment (2019/2020 Academic Year)

Master of Medicine	Master of Science	Fellowship	Diploma	PhD	TOTAL
557	114	21	5	22	719

International Students (2019/2020 Academic Year) = 107

Degree Program	Total
Fellowship in Paediatric Emergency and Critical Care	1
Bachelor of science in Biochemistry	3
Higher Diploma in Diagnostic Medical Ultrasound	1
Bachelor of Medicine and Bachelor of Surgery	52
Postgraduate Diploma in Clinical Psychiatry	5
Master of Science in Clinical Psychology	5
Master of Science in Medical Microbiology	1
Master of Science in Clinical Cytology	2
Master of Science in Clinical Cytology	2

Master of Medicine in Obstetrics and Gynaecology	2
Master of Medicine in Ophthalmology	5
Master of Medicine in Anaesthesia	2
Master of Medicine in Orthopaedic surgery	4
Master of Medicine in Paediatrics and Child Health	5
Master of Medicine in Psychiatry	1
Master of Medicine in Urology	2
Master of Medicine in Neuro-surgery	4
Master of Medicine in general surgery	2
Master of Medicine in ENT	2
Master of Medicine in Human Pathology	1
Master of Medicine in Diagnostic Radiology	5
107	

Challenges

1. Prolonged industrial actions by health workers
2. Increased competition from other institutions doing similar things.
3. Duplication and diversity of regulators for academic programmes
4. Declining exchequer funding and freeze of hiring
5. Sporadic incidences of drug and substance abuse.
6. Inflation
7. Illnesses and Work-related stress
8. Staff attrition from age-related retirement, illnesses and deaths
9. Technological obsolescence
10. Demands of rapidly changing knowledge
11. Competition and crowding in the teaching hospital
12. Imparting clinical skills using e-learning

Corporate Social Responsibility and Outreach Activities

Activity	Focus Area	Date
Strategic Planning workshop on Haemophilia and Sickle cell Disease in Kenya “Current situation and identification of needs Healthcare Framework in Voi	Healthcare framework	Short course 28 th January 2020
Plastic Surgery & KSPRAS	Upper and lower limb reconstruction - KNH	Workshop 27 th and 28 th February 2020
Animated Video for Helping Youth	Pandemic work with people in the community and institutions is online and the link above is one of the creativities by one of the members of the Department of Psychiatry	March - June 2020

Community Service	The elderly, patients with other health issues and Covid-19	23rd April 2020
Community Service	Emphasis on the Covid-19 precaution measures	29th April 2020
Community Service	Heart health (any dangers) in relation to Immobility, sleep, mental health and alcohol	14th May 2020
Community Service	Link; Stress and High BP	25th May 2020
Online Teaching and Learning Commences	In response to COVID-19 pandemic, most of the operations of the University including teaching and learning for all programs were transitioned to online platforms. The School adopted these.	6 th April, 2020
School Inspected By EAC	The University of Nairobi (UoN) School of Medicine meets the requirements for training of medical students as provided in the East Africa Community (EAC) regional guidelines for inspection and recognition of medical schools and teaching hospitals in EAC partner states.	5 th March, 2020
Dr. Fredrick Ouma Oluga	School of Medicine alumnus lands job at Nairobi metropolitan services as Chief Officer Health	March 2020

Staff Portfolio

Designation	Qualifications
Department of Clinical Medicine and Therapeutics	
Professor	4
Associate Professor	7
Senior Lecturer	5
Lecturer	7
Department of Orthopaedic Surgery	
Professor	2
Senior Lecturer	3
Lecturer	5
Department of Obstetrics and Gynaecology	
Associate Professor (<i>1 on Leave of Absence</i>)	8
Senior Lecturer	6
Lecturer	5
Department of Ophthalmology	
Associate Professor	2
Senior Lecturer	5
Lecturer	5

Designation	Qualifications
Department of Biochemistry	
Professor	1
Assoc. Professor	4
Senior Lecturer	4
Lecturer	9
Tutorial Fellow	3
Graduate Assistant	2
Department of Human Pathology	
Professor	1
Associate Professor	3
Senior Lecturer	4
Lecturer	13
Department of Human Anatomy	
Professor	1
Senior Lecturer	3
Lecturer	1

Designation	Qualifications
Department of Medical Microbiology	
Professor	2
Associate Professor	1
Senior Lecturer	3
Lecturer	4
Assistant Lecturer	1
Tutorial Fellow	4
Department of Psychiatry	
Professor	3
Associate Professor	2
Senior Lecturer	5
Lecturer	4
Tutorial Fellow	3
Department of Paediatrics and Child Health	
Professor	5
Associate Professor	4
Senior Lecturer	5
Lecturer	12
Tutorial Fellow	3

Designation	Qualifications
Department of Medical Physiology	
Senior Lecturer	5
Lecturer	7
Department of Surgery	
Professor	4
Associate Professor	3
Senior Lecturer	10
Lecturer	15
Tutorial Fellow	5
Department of Anaesthesia	
Senior Lecturer	2
Lecturer	4
Department of Diagnostic Imaging and Radiation Medicine	
Senior Lecturer	9
Lecturer	6
Clinical Oncologist (Seconded from MoH)	2
Tutorial Fellow	1

Visiting Professors

Name	Duration	Organization
Professor Pier Paolo Piccaluga	20th – 25th April 2020 Department of Clinical Medicine and Therapeutics-Oncology	University of Bologna
Professor Lorenzo Leoncini	24th – 29th February 2020	University of Siena
Professor Bernardo Leon Rapoport	14th – 21st June 2020	South Africa
Professor Nazik Hamaad	12th – 27th July 2020	Queen's University
Professor Julie-Ann Francis	5th – 25th July 2020	Queen's University
Professor Paul Ruff	14th – 20th June 2020	University of Witwatersrand Faculty of Health Sciences

Projections

The School is anticipating to admit more PhD candidates in 2021.

Any Other Pertinent Information/Issues in the Year

The University of Nairobi (UoN) School of Medicine received Personal Protective Equipment (PPE) support worth 12 million Kenya shillings from the United States Agency for International Development (USAID). Prof. Fredrick Otieno, Dean School of Medicine, spearheaded the initiative.

Department of Psychiatry

Introduction

The Department of psychiatry is one of the departments at the School of Medicine, College of Health Sciences. It was established in 1971 soon after the start of the medical college in 1967. The department is situated at the medical school, Kenyatta National Hospital (KNH). For teaching purposes, the department also uses Mathari Hospital, which is situated about 10 kilometres away from KNH. At KNH together with staff from KNH we run outpatient clinics for both adults and children. We also work closely with Mathari hospital to train our students, both postgraduates and undergraduates.

2. Programmes Offered

- a) MBChB Level I Behavioural Sciences
- b) MBChB Level IV Psychiatry lectures
- c) MBChB Level V Psychiatry lectures
- d) Master of Medicine degree in Psychiatry (MMed Psych)
- e) Master of Science in Clinical Psychology (MSc Clinical Psychology)
- f) Post graduate Diploma in Psychotrauma
- g) Post graduate Diploma in Substance abuse
- h) Post graduate Diploma in Psychiatry Social Work
- i) Postgraduate Diploma in Clinical Psychiatry
- j) Doctor of Philosophy and Doctor of Medicine
- k) Doctor of Philosophy and Doctor of Clinical Psychology

We also service other departments in teaching postgraduate students, like the Department of Medicine and Paediatrics.

Enrolled Students

1. MMed Psychiatry – 22
2. MSc. Clinical Psychology – 21
3. PGD Psychiatric Social Work – 2

Strategic Issues

1. Graduated only 10 students which was much lower than the previous year. The low production of student in the 2020 FY was due to COVID – 19 pandemic.
2. Due to the COVID – 19 pandemic conferences attended were limited therefore full dissemination was not realized
3. There was also limitation in collaboration and linkages with peer institutions and industry locally and internationally.
4. Challenges in automation of course evaluation tool.

Major Achievements in the Year 2020

1. Online teaching, learning and examinations.
2. Online interviews, Admissions and Registration of students.
3. Graduated 10 postgraduate students during the 64th graduation ceremony.
4. Ten webinar presentations on COVID-19 pandemic related issues.

- Revised the draft MOU between UoN and Mathari Hospital which is now almost at the stage of signing by the two parties.
- Despite the COVID – 19 pandemics, the department was committed to conducting outreach programmes with people in the community particularly vulnerable individuals - women and the youth.

Cooperate and Community Outreach Activities

Lecturer	Programme	Sch/ Dept/ Unit	Extension/Outreach	Date
Prof. David Ndeti	Kenya Guidance and Counselling Psychological Association	Psychiatry	Guidance and Counselling	Winter 2020
Dr. Manasi Kumar	Animated video for helping youth	Psychiatry	During this COVID-19 pandemic work with people in the community and institutions is online and the link above is one of the creativities by one of the members of the Department of Psychiatry	March – June 2020
Dr. Lincoln Khasakhala	Community Volunteer	Psychiatry	Chief Operating Officer for SAPER	April 2020

Staff Portfolio

Position	No. of Staff
Professor	3
Associate Professor	2
Senior Lecturer	5
Lecturer	4
Tutorial Fellow	3
Secretary	2
Total	19

Projections

- Focus on realizing succession planning in the Department of Psychiatry
- Prioritize and align more programmes, projects and activities to the realization of the “Big Four” agenda through mounting research projects focusing on COVID – 19 in collaboration with partners and institutions
- Alignment of the various programmes with CUE guidelines and standards – already in process

Any Other Pertinent Information/Issues in the Year 2020

- The Department of Psychiatry lost two members of the academic staff in 2019 and to date they have not been replaced even after I requested for their replacement.
- The Department is grossly understaffed, and almost half of the academic members are above 60 years of age and will be retiring almost at the same time. The Department urgently needs to replace the two members who died and to recruit tutorial fellows for succession planning.

International Students Component

We have sixteen (16) international students

Number Graduands per Programme

MMed Psychiatry - 8

MSc. Clinical Psychology - 2

Research Activities Undertaken

Title	Duration	Donor	Activities	Pi
SMART AFRICA	2015 – 2019 Extension to May 2021 2023	New York University	<p>Main activity of this project is working with parents and their children to improve on respectful communication. This is to be done through:</p> <p>Adaptation of the American manual 4Rs and 2 Ss- almost done. This has been through engagement of stakeholders</p> <p>Selecting of the three schools to be involved in the pilot study and to randomly assign them to either peer parents training, community health workers training or giving educational materials – almost done.</p> <p>Training of Trainers – was done in December 2018</p> <p>Selecting peer parents and CHW- was done in January 2019</p> <p>Training the parent and CHW trainers- was done in January 2019</p> <p>Started the intervention in Feb 2019</p>	Dr. Anne W. Mbwayo
ASPIRE	2018 - 2023	US Fogarty International Center & NIMH	<p>The major activity of the project is focusing on mental health needs of pregnant adolescents. Since the award of the grant in September 2018, PI has submitted her protocol to IRB and carried out two stakeholder meetings. She has made plans for research training activities for the remainder of the year.</p>	Dr. Manasi Kumar
DAPPER	2018 - 2023	NIMH	<p>The purpose of the project is to conduct effectiveness implementation hybrid randomized clinical trial of psychotherapy versus pharmacotherapy delivered by non-specialist in Kisumu County.</p> <p>Ongoing project</p>	Prof. Muthoni Mathai

Title	Duration	Donor	Activities	Pi
WHO EQUIP	2019 - 2020	WHO	Training and intervention	Prof. Muthoni Mathai

International Links and Collaboration

MOU signed between University of Nairobi and Walden University for collaborated fieldwork supervision of Walden University student attached to the Department of Psychiatry.

Publications

Author	Title	The Journal	Date
E. Lloyd, N. Sartorius, H.U. Ahmed, A. Alvarez, S. Bahendeka, A.E. Bobrov), L. Burti, S.K. Chaturvedi, W. Gaebel, G. de Girolamo, T.M. Gondek, M. Guinzbourg, M.G. Heinze, A. Khan, A. Kiejna, A. Kokoszka, T. Kamala, N.M. Lalic, D. Lecic-Tosevski, E.	Factors associated with the onset of major depressive disorder in adults with type 2 diabetes living in 12 different countries: results from the INTERPRET-DD prospective study Volume	Epidemiology and Psychiatric Sciences. DOI: https://doi.org/10.1017/S2045796020000438	2020
Rose Ngondi ¹ , Lincoln Khasakhala ² and Philemon Yugi ³	Relationship between Emotional Intelligence and Academic Performance among Secondary School Students in Athi-River Sub County, Kenya	Journal of Education in Developing Economies 1(1), 2020 (online) Website: www.writersbureau.net	2020
Rose Ngondi ¹ , Lincoln Khasakhala ² , Philemon Yugi ³	Emotional Intelligence in Relation to Gender among Secondary School Students in Athi-River Sub-County, Kenya	African Research Journal of Education and Social Sciences 7 (1), 2020 ISSN (online): 2312-0134 Website: www.arjess.org	2020
Larissa Jennings Mayo-Wilson ^{1,2*} , Muthoni Mathai ^{3,4} , Grace Yi ² , Margaret O. Mak'anyengo ^{3,4} , Melissa Davoust ² , Massah L. Massaquoi ² , Stefan Baral ⁵ , Fred M. Ssewamala ⁶ , Nancy E. Glass ⁷ , NAHEDO Study Group ⁴	Lessons learned from using respondent driven sampling (RDS) to assess sexual risk behaviors among Kenyan young adults living in urban slum settlements: A process evaluation	https://doi.org/10.1371/journal.pone.0231248	May 2020

Author	Title	The Journal	Date
Catherine Mawia Musyoka, Anne Mbwayo, Dennis M. Donovan & Muthoni Mathai	mHealth-based peer mentoring for prevention of alcohol and substance abuse among first year university students: protocol	Journal of Substance Use, DOI: 10.1080/14659891.2020.176 6131	May 2020
Victoria Mutiso; Christine Musyimi; Tahilia Rebello; Isaiah Gitonga; Albert Tele; Kathleen Pike; David M. Ndeti	Predictors of Intimate Partner Violence in patients attending for general health services at rural health facilities in Makueni, County, Kenya.	Mental Health & Prevention. Available online 8 September 2020, https://doi.org/10.1016/j.mhp.2020.20019	2020
David M. Ndeti, Victoria Mutiso, Christine Musyimi, Frida Kameti	Psychosocial Response to COVID- 19 in Africa With Special Reference To Kenya.	World Social Psychiatry. 2020, Vol 2 Issue 2. http://www.worldsocpsychiatry.org IP: 10.232.74.22	2020
GBD 2019 Universal Health Coverage Collaborators	GBD 2019 Universal Health Coverage Collaborators. Measuring universal health coverage based on an index of effective coverage of health services in 204 countries and territories, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019.	The Lancet. 27 August 2020. DOI:10.1016/S0140- 6736(20)30750-9.	27 August 2020
Local Burden of Disease WaSH Collaborators	Mapping geographical inequalities in access to drinking water and sanitation facilities in low- income and middle-income countries, 2000–17.	The Lancet Global Health. August 2020. DOI:10.1016/ S2214-109X(20)30278-3.	August 2020
Local Burden of Disease Diarrhoea Collaborators	Mapping geographic inequalities in oral rehydration therapy coverage in low- and middle-income countries, 2000–17.	The Lancet Global Health. August 2020. DOI:10.1016/ S2214-109X(20)30230-8. August 2020.	August 2020

Author	Title	The Journal	Date
Yator, O., Khasakhala, L., John- Stewart, Kumar, M. (2020).	Acceptability and Feasibility of Group Interpersonal Therapy (IPT-G) for Depressed HIV+ Postpartum Adolescents Delivered by Community Health Workers: A Protocol Paper	Clinical Medicine Insights Psychiatry 11:117955732095122 DOI:10.1177/1179557320951222	August 2020
Yator O, Kagoya M, Khasakhala L, John-Stewart G, Kumar M.	Task-sharing and piloting WHO group interpersonal psychotherapy (IPT-G) for adolescent mothers living with HIV in Nairobi primary health care centers: a process paper. AIDS Care.	-6.11:1 doi: 10.1080/09540121.2020.1801981. Epub ahead of print. PMID: 32781831.	2020 Aug
Flückiger C, Rubel J, Del Re AC, Horvath AO, Wampold BE, Crits-Christoph P, Atzil-Slonim D, Compare A, Falkenström F, Ekeblad A, Errázuriz P, Fisher H, Hoffart A, Huppert JD, Kivity Y, Kumar M, Lutz W, Muran JC, Strunk DR, Tasca GA, Vísľá A, Voderholzer U, Webb CA, Xu H, Zilcha-Mano S, Barber JP.	The reciprocal relationship between alliance and early treatment symptoms: A two-stage individual participant data meta-analysis.	J Consult Clin Psychol. 88(9):829-843. doi: 10.1037/ccp0000594. PMID: 32757587.	2020 Sep
Sinha, M. Kumar, M, Kumar, Dietz, L. Atwoli, L.	Towards mental health friendly cities during and after COVID-19, Cities & Health August 2020. Cities & Health	DOI: 10.1080/23748834.2020.1790251	August 2020
Catherine Mawia Musyoka, Anne Mbwayo, Dennis Donavan, Muthoni Mathai	Alcohol Substance Use Among First-year Students at the University of Nairobi, Kenya: Prevalence Patterns	Journal Pone	August 2020

Author	Title	The Journal	Date
Yvonne Olando, Mary Kuria, Muthoni Mathai, Mark D, Huffman	Barriers and Facilitators to cessation among Tobacco Users with concomitant mental illness attending group behavioural tobacco cessation: A qualitative Study		August 2020

Book Chapters Produced (4)

Author*	Title	Journal	Period**
Musyimi, C., Lai, Y., Mutiso, V., Ndeti, D .	Use of Mobile Phones for Frontline Health-Care Workers to Manage Depression “The Role of Technology”	Innovations in Global Mental Health 10.1007/978-3-319-70134-9_12- 1 © Springer Nature Switzerland AG	2020
Ndeti DM, Mutiso V.	Mental Health During Covid-19 and Lessons For The Future Beyond Covid-19	Global Mental Health & Psychiatry Review, Vol. 1 No. 2, Spring/ Summer	2020

Conferences

Name of Lecturer	Topics/Function	Venue/Place	Date
David Ndeti and WPA Board members	WPA Board Virtual meeting – WPA 2020-2023 Action Plan	Webinar (Organized by WPA Geneva)	29 th September 2020; at 14:00 - 17:30
David Ndeti (WPA Zone 14) and WPA Zone 15 and 16 Representatives	WPA webinar Evidence Based Psychopharmacology	Webinar (Organized by WPA Geneva)	19 th September 2020; at 12.00 – 14.00
David Ndeti	Suicide and How To Handle Stress	Family TV Media	28 th September 2020 at 11.00 – 12:00
David Ndeti	Discussion on Anxiety/Panic attacks	Family TV Media	21 st September 2020 at 13:00-14:00
David Ndeti and others (Uganda Team)	World Suicide Prevention day: Working together to prevent Suicide	Zoom meeting – (The Sanctuary, a youth organization in Uganda)	10 th September 2020; at 10:00
David Ndeti and WPA Board members	WPA Task Force Minimizing coercion in mental health	Zoom meeting – (Organized by WPA Geneva)	9 th September 2020 at 14:00 – 16:00
David Ndeti	Talk on Depression.	Family TV Media	18 th August 2020 13:00 – 14.30

Name of Lecturer	Topics/Function	Venue/Place	Date
David Ndeti	Talk on COVID-19 – How it affected many Kenyans have been rendered jobless, their source of livelihoods disrupted and there have been an increase in Domestic violence	Family TV Media	11 th August 2020 13:00 – 14.30
David Ndeti and WPA Board members	WPA Joint Executive Committee and Board Meeting	Zoom meeting – (Organized by WPA Geneva)	31 st July 2020; at 14:00 – 15.30
Manasi Kumar	Participated in CitiesRise MHFC consultation		June 2020
Manasi Kumar	Presented to KNH COVID meeting on psychological first aid		10 June and 18 July, 2020
Manasi Kumar	Presented to Cities Rise on ‘addressing trauma, depression and stress during COVID’		August 12, 2020
Muthoni Mathai	Vicarious Trauma Among Health Care Workers: Kenya Medical Association In Association With Kenya Psychiatric Association Online CME	Online CME	21 st April 2020
Muthoni Mathai	Covid-19 And The Psychological Effect On Frontline Health Responders: KNH Covid-19 Webinar	KNH COVID-19 Webinar	29 th April 2020
Muthoni Mathai	Behavioral Change: Protective Practices In The Public Sector KNH COVID-19 Webinar	KNH COVID-19 Webinar	8 th July 2020
Muthoni Mathai	The Acceptability and Effectiveness of a Tele-Medicine Based Approach to Offering Psychosocial Support to Frontline Healthcare Workers During The Covid-19 Pandemic in Kenya	CHS-UON COVID Response Research Webnar	14 th July 2020
Muthoni Mathai	It Is About Behaviour Change! The COVID 19 Research Alliance Webinar: One Size Fits All?	Research Alliance Webinar	29 th July 2020

Name of Lecturer	Topics/Function	Venue/Place	Date
Muthoni Mathai	COVID 19 and STIGMA AMONG HEALTH CARE WORKERS KNH- Webinar	KNH-Webinar	27 th August 2020
Muthoni Mathai	Suicide Prevention Tubonge Suicide Prevention Webinar:	Tubonge Suicide Prevention Webinar	24 th September 2020
Muthoni Mathai	COVID 19: Living in The New Norm: Witness Protection Agency- Workshop on COVID 19 Prevention Strategies		25 th November 2020

Supervisions

Supervisors	Students
Prof. Anne Obondo	Dr Linet Kendi Mbae, Dr Gloria N Sane, James Letoo, Ahmed Hussein, Keziah Wanjau, Julia Wambui, Tubmann Wilma, Kiarie Esther Wambui, Pauline Maachio, Peter Odieki, Sylvia Okwero, Karemera M. Wellars' (PhD)
Prof. Wangari Kuria	Dr Ruth Jephumba Korir, George Githambo, Dr. Caroline Makau, Dr. Alfred Gitonga, Dr. Samuel Oroko, Peter Owuor, Yvonne Olando (PhD), Roseline Okoth (PhD), Tina Wakukha Masai (PhD), Yvonne A. Olando (PhD), Esther W. Kariuki (PhD), Karemera M. Wellars' (PhD)
Prof. Caleb Othieno	Dr Muia Mwende Janet, Grace Okoba, Grace Obalim, Mary Mugambi
Prof. Muthoni Mathai	Dr Mumbi Chege, Dr. Linda N Nyamute, Dr Eric Njuguna, Segametsi Bongani Mthunzi, William Otieno, Shillah Mwavua, Mercy Chege, Sandra Kimuge, Dr. Mustafa Ali, Dr. Stanley Muange, Dr. Edward Odhiambo, Dr. Samuel Oroko, Ahmed Hussein, Sylvia Mita, Esther Gathoni, Simon Kintu, Nancy Ngathi, Kianduma Yvonne Njeri, Hussein Abdi Abdullahi, Neema Araka, Peter Odieki, Margaret Magiri Kihato, Tina Wakukha Masai (PhD), Catherine Mawia Musyoka (PhD), Yvonne A. Olando (PhD)
Dr. F.R. Owiti	Dr Joseph Makenga Masila, Dr Mumbi Chege, Dr. Elizabeth Ngarachu, Dr. Mugira George Itabari, Dr. Muburi Catherine Muthoni, Seline Okumu, Jackline Araya, Kuria Susan Wangeci, Kamenju Malaika, Emmanuel Alenga Amadi, Toguem Guy Michael
Dr. Manasi Kumar	Dr Milka A. Olando, Joan Mutahi, Kamenju Malaika, Awuoche Victoria, Husna Salim, Jacinta Muriuki, Obadia K. Yator (PhD)
Dr. Lincoln Khasakhala	Dr Joseph Makenga Masila, Dr Linet Kendi Mbae, Shillah Mwavua, Damaris Osoro, Elizabeth Epirong, Maureen Mbuga, Dr. Amos Kariuki, Mogotsi Thapelo, Josephe Kathono, Simon Ngipuo, Elizabeth Ipurong, Iham Mohamed, Jennifer Njoki, Awuoche Victoria, John Kimura, Peter Dede, Obadia K. Yator (PhD)

Supervisors	Students
Dr. Judy Kamau	Joan Mutahi, Joan Ahero, Sandra Kamuge, Nelly Kamwaro, Milka Olando, Ruth Kioko, Faith Muhindi, Stephen Mucheu, Sheilla Shavulimo, Grace Obalim, Kariuki Sylvia Wambui, Pelaelo Ketshephile, Kiarie Esther Wambui, Stephen Karimi, Sylvia Okwero
Dr. John Mburu	Dr Gloria N Sane, Dr. Elizabeth Ngarachu, Dr Muia Mwende Janet, Dr. Ruth Masha, Dr. Mustafa Ali, Dr. Penina Kibuti, Mogotsi Thapelo, Mustafa Ali, Seline Okumu, Kuria Susan Wangeci, Peter Owuor, Emmanuel Alenga Amadi, Shivute NdapewaNamibia, Peter Dede, Margaret Magiri Kihato
Dr. Anne Mwayo	Dr Linda N Nyamute , Dr Ruth Jepchumba Korir, Dr Eric Njuguna, Mercy Chege, Martha Kagoya, George Githambo, Selfine Otieno, Dr. Caroline Makau, Dr. Mugira George Itabari, Dr. Muburi Catherine Muthoni, Keziah Wanjau, Simon Ngipuo, Sheilla Shavulimo, Mbandi Florence, George Gituanja, Jacinta Muriuki, Maria, Gertrude Faith Nanzala, Catherine Musyoka (PhD)
Dr. Teresia Mutavi	Ruth Kioko, Maureen Mbuge, Elizabeth Epirong, Dr. Mustafa Ali, Dr. Ruth Masha, Dr. Erica Adagala, Dr. Stanley Nzau Muange, Dr. Alfred Gitonga, Mustafa Ali, Esther Gathoni, Elizabeth Ipurong, Angeline Mutindi, Iham Mohamed, John Kimura, Zawadi Kimura, Gertrude Faith Nanzala
Dr. Pius Kigamwa	Segametsi Bongani Mthunzi, William Otieno, Martha Kagoya, Dr. Erica Adagala, Dr. Amos Kariuki, Dr. Edward Odhiambo, Monica Otiende, Kevin Lime, Sheila Mwangi, Sylvia Mita, Julia Wambui, Tom Mboya Nyangwara, Angeline Mutindi, Husna Salim, Obaso Nectarias, Pauline Maachio
Dr. Rachel Kang'ethe	Selfine Otieno, Dr. Penina Kibuti, Kevin Lime, Joan Ahero, Caroline Vundi, Beryl Akoth Odhiambo, Maria
Prof. David Ndeti	Kianduma Yvonne Njeri, Tubmann Wilma, Toguem Guy Michael, George Gituanja, Caroline Ossi, Esther W. Kariuki (PhD)
Dr. Roselyne Okoth	Kariuki Sylvia Wambui, Tom Mboya Nyangwara, Stephen Karimi, Beryl Akoth Odhiambo, Caroline Ossi
Dr. Catherine Gitau	Pelaelo Ketshephile, Mbandi Florence, Caroline Vundi, Obaso Nectarias, Zawadi Kimura
Dr. Pauline Nganga	Jennifer Njoki, Hussein Abdi Abdullahi, Shivute Ndapewa Namibia, Neema Araka

Consultancies by Staff Members/Unit

1. Dr. Pius Kigamwa, Offers psychiatric services at University Health Services
2. Dr. Fredrick Owiti, Offers psychiatric services at University Health Services
3. All members of staff offer services both at Kenyatta National Hospital and University Health Services

Staff Portfolio

Designation	No. of Staff
Professor	3
Associate Professor	2
Senior Lecturer	5
Lecturer	4
Tutorial Fellow	3
Secretary	2
Total	19

Number of Graduates

MMed Psychiatry	-	8
MSc. Clinical Psychology	-	2

Grants

Name of Lecturer	Topics/Function	Period/Date
Dr. Manasi Kumar	K43 Emerging Global Leader award (Award number TW010716-01A1)	2018 – 2023
Prof. Muthoni Mathai	DAPPER, NIH, USD 796096	2018 – 2023
Prof. Muthoni Mathai	WHO – EQUIP	2019 – 2020
Dr. Anne Mwayo	SMART AFRICA	2018 – 2023

School of Nursing Sciences



School of Nursing Sciences, College of Health Sciences (Kenyatta National Hospital Campus)

Introduction

The School of Nursing Sciences is one of the Schools of the College of Health Sciences. It was initially a department in the faculty of Medicine for close to 38 years before being fully established as a School in January 2006 to offer training of nurses both at undergraduate and postgraduate levels. The administrative unit of the School of Nursing Sciences is the Directors' office. The School has four Thematic Areas namely: Medical/Surgical Nursing, Obstetrics/Midwifery and Gynaecological Nursing, Community Health Nursing and Nursing Education and Administration.

Thematic Units/Areas	Specialized Courses with Respective Subspecialties
Medical – Surgical Nursing	<ul style="list-style-type: none"> - Theories, Philosophies and Scientific basis of Fundamentals, Advanced and Forensic Nursing Practice - Paediatrics Nursing - cardiothoracic, Critical care, Accident, Trauma and Emergency care, etc. - Mental Health and Psychiatric Nursing - Child and adolescent, forensic, etc. - Critical Care Nursing-neurological ICU,Cardiothoracic ICU,etc - Renal Nursing - Nephrology, Urological, transplant nursing, PD nursing etc. - Oncological Nursing- Radiological interventional & imaging, palliative, etc. - Medical - Surgical nursing : Geriatric Nursing, Perioperative, Burns,etc.
Obstetric Nursing and Midwifery	<ul style="list-style-type: none"> - Reproductive health – SGBV, etc - Gynecological Nursing - Obstetric Nursing and Midwifery – Antenatal care nursing, Post-natal nursing, Intra partum nursing, Neonatal nursing etc

Community Health nursing	<ul style="list-style-type: none"> - Family health nursing - Maternal Child Health and Family Planning - Community Health nursing – School health, Occupational health,etc
Administration and Education in Nursing	<ul style="list-style-type: none"> - Nursing Education – Philosophy of education, Curriculum development and instruction, instructional communication and technology,etc - Nursing management and Administration-Human resource, Strategic management, etc. - Nursing Informatics – communication, simulation etc. - Research-Research ethics,Qualitative,Quantitative,etc

Vision

A centre of excellence in nursing education, research, community service and consultancy with scholars and professionals

Mission

To train nurse professionals, carry out research in current and emerging health issues, provide community service and consultancy.

Objectives

- To design and implement relevant and innovative teaching and learning progress
- To be a leading institutions in Scholarly research and creative productivity in Africa
- Improve student welfare services through development and implementation of appropriate minimum standards
- To build a sustainable resource base
- To enhance competitiveness and image of the School
- To instutionalize governance mechanism and leadership culture that facilitate the realization of the Schools vision and mission

Programmes Offered

The School offers the following programmes:

- Diploma in Renal Nursing (in collaboration with East African Kidney) - 1 Year
- Bachelor of Science in Nursing (Bsc.N) - 4 Years
- Bachelor of Science in Nursing (RN to BSc) - 3 Years
- Master of Science in Nursing (MScN) - 2 years (Various Specialties)
- PhD in Nursing

Strategic Issues

- Institutionalize an appropriate culture in the School of Nursing Sciences by Increasing commitment, loyalty and responsibility among staff by ensuring compliance with the teaching schedule and keeping to timelines
- Market the School locally and internationally by establishing new linkages/partnerships with industry and by documenting key achievements on foyer/websites
- Establish and operationalize mechanisms that empower staff. This will be achieved by developing and implementing staff recognition & appreciation programme for exceptional talent and excellent performance in the School
- Review existing graduate programmes to attract more students by increasing the number of partnerships established with international universities/institutions and also increase the number of graduate students in diverse fields/specialties in Nursing profession

5. Improve the quality and quantity of STEM programme by ensuring that all academic units have adequate and equipped skills/simulation laboratory for STEM programs such as Nursing
6. To produce quality graduates in diverse fields of nursing by improving quality and delivery of teaching and learning programmes

Major Achievements in the Year 2020

Item	Remarks
Online Thesis defense	One candidate successfully defended PhD thesis
Online Dissertation Defense	All MScN Students defended their dissertations online
Criteria for academic staff recruitment and promotion	Given by Senate and successfully used to advertise for the following posts for the School. - Post of Professor - Post of Ass. Prof
Mainstreaming of online teaching and learning	- Successfully done both undergraduate and post graduate - Staff and students were trained on teaching and class enrollment
Online solutions for university business	- Lots of queries handled using help desk created for the School - More email accounts created for solving various issues at the School e.g verification of documents, examination queries
Online examinations	- Conducted successfully. University provided Telkom lines with bundles to staff and students - Challenges with power issues and proper gadgets not available for some students
Online UNSA elections, 2020	School participated by providing nominal rolls online Students from the School voted online
Online Candle lighting ceremony and The NIGHTINGALE Pledge/OATHING	The school organized and conducted the Candle lighting ceremony and the Nightingale pledge/Oath that is mandatory for all new graduands of nursing
Online FY 2019/2020 Performance Contract Evaluation	The School was successfully evaluated on the FY 2019/2020 Performance Contract and obtained the overall grade of "GOOD"
Virtual 63 rd & 64 th Graduations	1 PhD graduand in 63 rd graduation, 101 undergraduate graduands, 20 MScN in the 64 th graduation
Virtual UoN@50 Celebrations	Members of Staff awarded Excellence Outstanding Achiever Awards:- The Late Dr.Joyce Musandu
Online Registrations of 1 st year students	Joining instructions of students uploaded and students verified online

Item	Remarks
Online Orientation and welcoming of new students	The School conducted online orientation and welcoming of new students
Student progression	Students academic progress done
Pardon of expelled students	3 Nursing Students pardoned and reported
Webinars On COVID-19 related issues	15 Organized by the School, Staff attended over 20 other webinars
Online PhD Seminar series with international guest faculty	The school Organized qualitative research seminar series with an International guest Clinical Associate professor from Boston University. The seminar was conducted over 5 weeks of 3 hours each
Anchoring the pivotal role of the course leader, in examination process	Course leaders were successfully set in the System by UoN ICT team and were able to administer examinations online
Contribution to Health Policy at National and international levels	<ul style="list-style-type: none"> - Ending medicalization of Female genital mutilation in Kenya with a faculty member, Health professionals Associations and regulatory bodies - A faculty was appointed by UNESCO Chair in Bioethics, Melbourne, Australia and participated in drafting Global Nursing & Health Care Ethics Related to the COVID-19 Pandemic: Policy guidelines Based on UNESCO's Universal Declaration of Bioethics and Human Rights
Publications in peer reviewed journals	Seven publications on various issues of health
Recognition and international appointment of Alumni	An Alumnus of the school was appointed to Steering Group at International Council of Nurses in Geneva and represent student nurses at the World Health Assembly - Rashid Salim
International appointment	A member of faculty appointed as the Secretary to the Global Expert Panel on Nursing Bioethics of the UNESCO Chair in Bioethics
COVID-19 supplies Donations by Alumnus	An alumnus of the school Donated hand washing stations and sanitizers to the school as part of COVID-19 Transmission prevention strategy

Cooperate and Community Outreach Activities

The year 2020 had challenges due to the outbreak of covid-19 which led to most activities to a halt. Staff and students were not able to organize medical camps but some students managed to offer community outreach services in various parts of the country as follows;

- Voluntary work by students;
- Loisaba Community Conservation (Ewaso Dispensary)
- Garissa County Referral Hospital (Accident and Emergency Unit)

Staff Portfolio

There are twenty-one (21) Academic members of staff and six (6) support staff as follows:

Designation	No. of Staff
Professor	1
Associate Professor	1
Senior Lecturers	9
Lecturers	10
Administrator	1
Library Assistant	1
Secretary	1
Records Clerk	1
Messenger/Cleaner	2
Total	27

Future Projections

Establishment of Fully Fledged Departments in the School

- i) To increase international links and collaborations
- ii) Establishment of a school of Nursing and Rehabilitative Sciences to advance training in BSc physiotherapy, occupational therapy, orthopedic technology among others.
- iii) Provision of clinical services to include; Maternal Child Health/Family Planning and Nutrition, Counseling services, Substance Abuse rehabilitation, Community mental Health services, outreach and home based nursing care

School of Pharmacy

Department of Pharmaceutics and Pharmacy Practice



Our Vision

To be a centre of excellence and a leading Department in Pharmaceutical education, research and Pharmacy Practice.

Our Mission

To provide innovative leadership in Pharmaceutical Research, undergraduate, postgraduate training and professional development to members of our local and international community.

Introduction

The Department of Pharmaceutics and Pharmacy Practice is one of the three departments of the School of Pharmacy and is located within the college of Health Sciences. The Department was conceived as a section within the former Department of Pharmacy in the Faculty of Medicine in 1974. It became a fully-fledged Department when the School of Pharmacy attained Faculty status in July 1995.

The Department encompasses staff with interests and expertise in the field of Pharmaceutics, Drug Delivery, Nanotechnology, Clinical Pharmacy, Pharmacogenetics, Pharmacokinetics, Community Pharmacy, Pharmacometrics, Pharmacy Law and Ethics, Pharmaceutical Microbiology, Pharmacy Management and Social and Administrative Pharmacy.

Our members of staff are deeply committed to achieving excellence in our teaching and research missions. Our undergraduate program showcases several disciplines within the profession of pharmacy and provides our students with knowledge and expertise that prepare them adequately for professional practice. The program lays emphasis on interdisciplinary teamwork, to impart lifelong education of a well rounded up pharmacist. It is our earnest endeavour to equip our students with professional ethics and appreciation of the value of service to their profession and society.

The Pharmacy Practice and Drug Information Unit is a model community Pharmacy housed within the Department and caters as an active learning site for our students

The Pharmaceutical Product Development and Research Unit (PPD RU) formulates and produces high quality Pharmaceutical products.

Programmes Offered

Masters Programs

- i) Master of Pharmacy in Clinical Pharmacy
- ii) Master of Pharmacy in Industrial Pharmacy

PhD Programs

- i) Doctor of Philosophy in Pharmaceutics
- ii) Doctor of Philosophy in Clinical Pharmacy
- iii) Doctor of Philosophy in Industrial Pharmacy

Students Enrolment

- | | | | |
|--------------------------------|------|--------------------------------|-----|
| i) MPharm Clinical Pharmacy | - 15 | iii) PhD in Clinical Pharmacy | - 1 |
| ii) MPharm Industrial Pharmacy | - 3 | iv) PhD in Industrial Pharmacy | - 2 |

International Student Component

We had two international students in our Masters' program

Number of Graduates per Programme in the Year 2020

In the year 2020, the Department graduated a total of 14 postgraduate students as follows:

- | | |
|-------------------------------|------|
| PhD in Clinical Pharmacy | - 1 |
| MPharm in Clinical Pharmacy | - 12 |
| MPharm in Industrial Pharmacy | - 1 |

Research Activities

The current research that is being carried out is on formulation development of various pharmaceutical medicines using novel technologies for use in conditions like Cancer, parasitic diseases, malaria etc. The Department is also actively conducting clinical pharmacy research with KNH pharmaceutical services department on pharmaceutical therapy review in treatment for cancer, diabetes, extemporaneous preparation of wide range of dosage forms used for paediatrics and geriatrics.

1. Characterization of the drug use patterns and potential drug-drug interactions among the mentally ill adult patients at Mathari National Teaching and Referral hospital
2. Assessment of the management of uncontrolled hypertension among adult hypertensive outpatients attending Kenyatta National Hospital
3. Effectiveness and safety of artemether lumefantrine in patients with malaria in Bungoma County Referral Hospital
4. Drug related problems among patients with rheumatic diseases and connective tissue disorders in Kenyatta National Hospital
5. Patterns and determinants of dyslipidemias among patients with Type 2 diabetes mellitus at Kenyatta National Hospital
6. Evaluation of adverse drug events among patients infected with Human immunodeficiency virus and those co-infected with tuberculosis at Kenyatta National Hospital

7. Health-related quality of life and drug therapy problems in patients with sickle cell disease on hydroxyurea at Kenyatta National Hospital
8. Determinants and management of cardiac toxicities induced by anthracycline-based regimens in adult patients with cancer at Kenyatta National Hospital
9. Determinants of drug therapy problems among renal transplant recipients at Kenyatta National Hospital
10. Factors associated with treatment outcomes of prostate cancer patients on androgen deprivation therapy at Kenyatta National Hospital
11. Drug therapy problems among patients with thyroid disorders and related comorbidities at Kenyatta National hospital
12. Determinants of HPV vaccine hesitancy among parents attending Kenyatta National Hospital Outpatient clinics
13. Drug therapy problems among patients on proton pump inhibitors in the medical wards of Kenyatta National Hospital
14. Rational use of antibiotics among patients admitted to critical care units at Kenyatta National Hospital and its impact on clinical outcomes
15. Prevalence of Dolutegravir Associated Hyperglycemia and its Covariates among Persons Living with HIV on Treatment at Kenyatta National Hospital
16. Prevalence, trends and risk factors of infections in post renal transplant recipients in Kenyatta National Hospital
17. Drug related problems among patients admitted in the critical care unit of Kenyatta National Hospital
18. Etiology, Management and Outcome of Liver Disease among Patients with Hepatic Injury at Kenyatta National Hospital
19. Characterization of the steady state concentrations and Pharmacogenetics of Ritonavir boosted Atazanavir in Kenyan HIV positive patients.
20. Formulation and in vitro characterization of Nystatin --Lidocaine oral Gel
21. Physicochemical characterization of Loperamide Solid dispersion prepared through fusion method via microwave irradiation
22. Formulation and evaluation of Prednisolone sustained release tablets using myhrr gum as a release retardant.
23. Formulation and development of Albendazole Nanoparticulate system for use in Cancer
24. Solubility enhancement studies of Rufinamide, Praziquantel, Carbamezipine and Itraconazole.

International Links and Collaborations

1. MAPRONANO African Center of Excellence with Makerere University-Mainly on developing Nano medicines using Material science and nanotechnology and to support PhD and Masters Students doing research in Nanotechnology (2017-2021).
2. EAC Center of Excellence on Supply Chain Management of Health Commodities, Vaccines and Technologies for support training and short course facilitation in Kenya (2016-2021).

Publications

Author	Title	Journal	Month & Year
Sylvia A Oponga	Response to the Novel Corona Virus (COVID-19) Pandemic Across Africa: Successes, Challenges and implications for the future.	Frontiers	September 2020

Author	Title	Journal	Month & Year
Eunice Muthuki, David G. Nyamu, Peter Karimi, Kefa Bosire	Predictors of non-adherence to antihypertensive therapy in a rural health facility in Kenya.	African Journal of Pharmacology and Therapeutics	Volume 9 No. 2 (2020)
Norah Maore, Peter N. Karimi, Eric Guantai	Prevalence and Antimicrobial Susceptibility of Bacteria Implicated in Neonatal Sepsis at Pumwani Maternity Hospital	East and Central African Journal of Pharmaceutical Sciences	Volume 23 NO 2 (2020)
Charles Kabiru, Peter N, Karimi David Nyamu, Irene Waweru	Drug therapy problems and health related quality of life among patients with colorectal cancer in a Kenyan Tertiary Health Facility	Journal of Oncology Pharmacy Practice	November 2020
George Mugendi, Nasser Nyamweya, Faith Okalebo, Jashvant Unadkat	People living with HIV on Atazanavir-based second line regimens are not highly adherent to therapy: a report from a Tertiary Referral hospital in Kenya	African Journal of pharmacology and Therapeutics	Volume 9 No. 2 (2020)
Makite Simon, David Gitonga Nyamu, Rosaline Njeri Kinuthia	Clinical significance of potential Drug –Drug interactions and their targets for minimization among hypertensive diabetic outpatients at a Kenyan referral hospital	International Journal of Pharmacy and Pharmaceutical Sciences	Volume 12 issue 10, 2020
Atal A S Gil, Shital M. Maru, T M Reddy	A novel Copper – based 3D porous nanocomposite for electrochemical detection and inactivation of pathogenic bacteria	Sensors and Actuators B: Science Direct volume 321	15 October 2020
Akul Amartey, Kwame Buabeng, Senam Tengcy, Shital M. Maru	The availability, use and disposal of malaria and HIV rapid diagnostic test kits in health facilities in the greater Accra region of Ghana	International Journal of Community Medicine and Public Health	2020 Dec 7 (12) 4869 - 4878
Eunice Muthuki, David Gitonga Nyamu, Peter Ndirangu Karimi, Kefa Bosire	Adequacy of blood pressure control and management patterns among hypertensive adult patients attending a sub-county hospital in Central Kenya: a cross-sectional study	Pan African Medical Journal	December 2020
Peter Ndirangu Karimi, Shital Mahindra Maru	Factors that affect vaccines availability in Public Health Facilities in Nairobi city county: a cross-sectional study	Pan African-med -journal	December 2020
Sylvia Opanga et al	Ongoing strategies to improve the management of upper respiratory tract infections and reduce inappropriate antibiotic use particularly among lower and middle income counties	Current Medical Research and Opinion Journal	Volume 36 issue 2- 301 – 327 (2020)

Author	Title	Journal	Month & Year
David G. Nyamu, Anastasia Guantai, George Osanjo, Brian Godman, Eleni Aklillu	Profiles of patients on Warfarin anticoagulation therapy in a leading tertiary Hospital in Kenya: Findings and Implications for Kenya	Expert Review of Cardiovascular Therapy	Volume 18, 2020 issue 3
Mugendi AG, Kubo MN, Nyamu DG, Mwaniki LM, Wahome SK	Prevalence and Correlates of Depression among HIV infected patients on highly active antiretroviral therapy in a Kenyan Referral Hospital.	Journal of Kenya Association of Physicians	March 2020 volume 3 No. 1
Sakina I. Mamdani, David Nyamu, Tom Menge	Outcomes of a Pharmacist –led Anticoagulation Education Program among patients on long- term Warfarin Therapy in a Kenyan Referral Hospital	World Journal of Pharmaceutical and Medical Research	2020, 6 (7) 177-183
Gacheri KC, Karimi PN,	Medicated related problems in patients with Head and Neck cancers at KNH	Pharmaceutical Journal of Kenya	Volume 24 Nov 2020
Musembi YW, Karimi PN	Prevalence and Antimicrobial Susceptibility of Urogenital pathogens in a Kenyan Tertiary Health Facility	Pharmaceutical Journal of Kenya	Volume 24 Nov 2020
Gathoni KC, Karimi PN, Weru IW	Drug therapy problems and Clinical Outcomes among patients and Human Epidermal growth Factor Receptor 2 (HER 2) positive Breast cancer Trastucumab – based therapy in a Kenyan Tertiary Health Facility	Journal of Cancer Science and Clinical Oncology	Volume 6 issue 1 2020

Consultancies Either Undertaken by Staff Members/Unit

1. Pharmacy and Poisons Board (PPB)

Resource Persons in training and Assessment, recognition of Pharmacy specialties

- a) Dr. Peter Karimi
- b) Dr. Lucy J. Tirop
- c) Dr. David Nyamu
- d) Dr John Bururia

2. EAC Regional Centre of Excellence for Vaccines, Immunization and health Supply Chain Management, Kigali, University of Rwanda

- a) Dr P.N. Karimi
- b) Dr Shital M. Maru

3. GRV Africa Pharma Logistics/AUC for Health 2020 Task team for supply of COVID-19 Vaccine to Africa.

Dr Shital M. Maru

4. COVID -19 National team: Dr. Sylvia Opanga

5. KNH AMR stewardship program: Dr Sylvia Opanga

Staff Portfolio

Designation	No. of Staff
Senior Lecturer	5
Lecturer	2
Principal Technologist	1
Chief Technologist	1
Senior technologist	2
Technologist	1
Junior Lab Technologist IV	1
Laboratory Attendant	1
Records Clerk IV	1
Secretary	1
Messenger	1
Cleaner	1
Total	18

Corporate Social Responsibility

As responsible citizens of the University, the staff of the Department worked swiftly during the start of COVID 19 and responded by formulating and producing high quality, non-irritating, moisturizing and highly effective alcohol based hand sanitizing gels (UNISAN™ GEL) and surface disinfectant cleaner (UNISURF™) and distributed the products for internal institutional use within the University of Nairobi.

Major Achievements, Challenges and Strategic Projections

Major Achievements

The department managed to examine and graduate students in the 64th graduation ceremony and approximately 90% of the enrolled postgraduate students graduated despite the COVID 19 global pandemic and understaffing.

Whilst the School of Pharmacy ranked third in 2019/2020 Performance Contracting in the University of Nairobi, the department proudly emerged the best in the school and stood at 20th position out of 66 Departments, in spite of the very many challenges due to COVID 19 global pandemic.

Major Challenges

The Department in the previous year has lost many academic staff members due to deaths, retirement and resignation for greener pastures without replacement. The University has frozen recruitment despite numerous requisitions. The department is now acutely short - staffed and currently working at less than 40% of its actual capacity. It is feared that the academic members may get 'burn out' and leave or the quality of education may be compromised.

The other challenge the Department has is that the finance allocations are greatly insufficient to run operations effectively throughout the year. The department has three Laboratories, namely Pharmaceutics Laboratory, Pharmaceutical Microbiology laboratory and Pharmacy practice and drug information unit.

These Laboratories are highly lacking equipment, and medicines due to lack of finances. Even with the little available finances, the lengthy procurement processes are prohibitive.

Students have returned for physical practicum sessions in the small laboratories with few staff. This challenge coupled with COVID 19 protocols forces the Department to accommodate fewer number of students practice areas. This implies thus there are many practicum sessions and extended periods of time as the laboratories and units are quite small and the staff number is inadequate.

Strategic Projections

The Department projects to increase its research activities and publications by 10% in the coming year despite the many challenges occasioned by lack of finance, inadequate staffing and COVID 19 pandemic.

The Department is working hard to increase the production of hand sanitizing gels (UNISAN™ GEL and surface disinfectant cleaner (UNISURF™) and distribute them for internal institutional use within the University of Nairobi and beyond.

Other Relevant Information

The department wishes to request for the current staff to be promptly promoted and approvals to recruit more staff so that quality teaching and research can be carried out without staff facing a work burn out.

Currently as per the department staff establishment the senior most academic positions are vacant and staff have not been promoted despite meeting the criteria of promotion thus there is an aura of demotivation. Recruitment of tutorial fellows and Lecturers has been overly delayed from 2019 till date.

School of Public Health

The School of Public Health was formally established in September 2010 with the appointment of a Director following approval of University of Nairobi Senate in August 2010. Four Thematic Heads were appointed in October 2010 and the School was officially launched by the Vice-Chancellor on February 22, 2011. Director of the School is Prof. Joyce M. Olenja, BEd, (Nairobi), MPhil, PhD, (Cambridge). Previous Directors of the school were Dr. Dismas Ongore (2010-2016) and Professor Mutuku A. Mwanthi (2016-2020). The current Director is Professor Joyce M. Olenja (February 2020).

The School is made up of four Thematic Units, which are mandated to develop and offer courses as follows:

1. Epidemiology and Biostatistics

- a) Epidemiology
- b) Biostatistics and Computing
- c) Population Sciences
- d) Research Methods and Methodology

2. Health Care System and Policy Development

- a) Health Planning and Policy Development
- b) Health Services Administration & Evaluation
- c) Primary Health Care
- d) Health Economics

3. Disease Prevention, Control and Health Promotion

- a) Communicable and Non-Communicable Disease Prevention and Control
- b) Family Health
- c) Nutrition
- d) Environmental Health
- e) Occupational and Industrial Health and Safety

4. Community Health Sciences

- a) Social Sciences & Health
- b) Health Promotion & Communication

The School teaches both undergraduate Bachelor of Medicine and Bachelor of Surgery (MBChB), Master of Public Health (MPH), Master of Science in Health Systems Management (MSc HSM) and PhD in Public Health.

Major Achievements in the Year 2020

Date	Item	Department	Remarks
March 4, 2020	Director SPH	Corporate, SPH	The Vice Chancellor, in a School board meeting held at the College, School of Medicine boardroom, appointed Prof. Joyce Olenja as the new Director of the School of Public Health.
April 6, 2020	Online teaching and learning commences	Corporate, SPH	In response to COVID-19 pandemic, most of the operations of the University including teaching and learning for all programs were transitioned to online platforms. The School adopted these.

Date	Item	Department	Remarks
April 17, 2020	Collaboration Agreement	Corporate, SPH	The University of Nairobi (acting through the School of Public Health) signed a Collaboration Agreement with the London School of Hygiene & Tropical Medicine (LSHTM) to undertake a research project entitled “Programme to Evaluate and Inform Disability Action (PENDA). In the agreement, 1 PhD in Public Health student is currently being sponsored by the LSHTM and co-supervised by staff from School of Public Health and LSHTM for Degree of UON
July 3, 2020	MPH Dissertation defense	SPH	One (1) student successfully defended her MPH Dissertation.
August 21, 2020	FY 2019/2020 Performance Contract Evaluation	SPH	The School (SPH) was successfully evaluated (online) on the FY 2019/2020 Performance Contract
August 25, 2020	Negotiated SPH PC 2020/2021	SPH	The School submitted to the UoN PC Secretariat the 2020/2021 negotiated performance contract/report.
August 26, 2020	Online registration & orientation of new students	Academic Affairs, SPH	Successful enrollment and orientation of first year students was conducted. 38 students were admitted to the MPH programme while 4 students admitted to PhD in Public Health.
October 7, 2020	MPH Dissertation defense	SPH	Four (4) students successfully defended their MPH Dissertations.
October 7, 2020	Proposal to Ethics Review Committee	SPH	One MPH student proposal was signed to the UoN/KNH Ethics Committee.
September 25, 2020	Virtual 63rd Graduation Ceremony held successfully at the Great Court	Corporate	2 Master of Public Health graduands were among those conferred degrees and awarded diplomas by the Chancellor, Dr. Vijoo Rattansi.
November 9 – December 4, 2020	MBChB V fieldwork/ health center practice (face-to-face learning)	SPH	85 MBChB Year V students on Community Health rotation undertook their fieldwork/community diagnosis and health center practice at six health centres, that is; Gikambura, Lusigetti, Ndeiya, Uthiru, Wangige and Kihara, in Kiambu County. The exercise was done under strict observance of the MOH guidelines on Covid-19, including issuing of N95 masks to the students as protectives.

Date	Item	Department	Remarks
November 9 - 13, 2020	MPH CATs	SPH	The 2020/2021 MPH class sat for their continuous assessment tests undertaken online.
November 12, 2020	MPH Dissertation defense	SPH	Three (3) students defended their MPH Dissertations online.
November 19, 2020	2019/2020 MBChB V CAT		100 MBChB year five students undertook their Community Health online Continuous Assessment Test (CAT) invigilated by the School faculty.
December 9 to 14, 2020	2019/2020 MBChB V end of year Examinations	SPH	300 MBChB year five students undertook their online Community Health end of year examination invigilated by the School faculty.
December 10, 2020	UoN Jubilee Celebrations		Two (2) SPH Alumni were feted during the UoN at 50 celebrations: Prof. Julia Ojiambo and Prof. Miriam Were.
December 11, 2020	Virtual 64th graduation ceremony held successfully at the Great Court	Academic Affairs	1 PhD in Public Health and 7 Master of Public Health graduands were among those conferred degrees and awarded diplomas by the Chancellor, Dr. Vijoo Rattansi. A honorary degree was awarded to Prof. Julia Ojiambo, an alumni of the School of Public Health
December 15 and 16 2020	Virtual Sensitization on Career Development and Soft Skills to Administrative and Secretarial Staff	Corporate, SPH	The School administrator and Secretary participated in the Virtual Sensitization on Career Development and Soft Skills to Administrative And Secretarial Staff

Staff Portfolio

Designation	No. of Staff
Professor	3
Senior Lecturer	3
Lecturer	10
Senior Administrative Assistant	1

Details on specific admission requirements of the school, credit transfer and exemptions, course structure and duration, examination regulations, course outline and award of degree may be obtained from the School.

East African Kidney Institute



Introduction

The East Africa kidney Institute was launched on October, 2014 as a Center of Excellence after a Senate approval. The Institute was to address the burden of chronic kidney and urological diseases that are emerging as a major global health problem with heavy morbidity and mortality with its associated social and economic burden. They are the 12th cause of death and 17th course of disability. East and central Africa region is experiencing a great need for the scientific base knowledge and skills for the practice of urology and nephrology. The East Africa states through the Africa Development Bank agreed to set up the East Africa kidney institute

Vision

An internationally recognized centre committed to scholarly and professional excellence in Urology and Nephrology

Mission

To provide quality medical education and training through creation, preservation, integration, transmission and utilization of health knowledge

As a regional center of excellence, it was mandated to build capacity in research training, clinical and preventive services in urology and nephrology for both faculty and service providers. The University of Nairobi and Kenyatta National Hospital serve as lead institutions.

Mandate

- i) To train high calibre renal health-care professionals
- ii) To offer renal health-related services to the community
- iii) To conduct research in the specific thematic areas of Urology, Nephrology, Nursing and Nutrition
- iv) To offer consultancy services
- v) To participate in renal health policy formulation

Programmes Offered

The Institute offers various courses to build capacity in renal healthcare these are:-

Postgraduate Courses:-

- | | |
|--|---|
| i) Master of Medicine in Urology | vi) Masters in Renal Nutrition |
| ii) Master of Science in Renal Nursing | vii) Post graduate Diploma in Renal Nutrition |
| iii) Fellowship in Clinical Nephrology | viii) Undergraduate Courses:- |
| iv) Fellowship in Pediatric Nephrology | ix) Diploma in Renal Nursing |
| v) Diploma in Renal Nursing | |

Short Courses

These are short skill based 12-week short courses to build capacity for staff working in renal clinics in public and the private sector.

- | | |
|---|--|
| i) Preceptorship in renal nursing | iv) Preceptorship in Dialysis Access |
| ii) Preceptorship in renal nutrition | v) Preceptorship in renal laboratory Science |
| iii) Preceptorship in renal pharmacy practice | vi) Preceptorship in for Physicians & Medical Officers |

Strategic Issues

The activities at the institute were ongoing despite the COVID- 19 break. The Registrars undertaking the Fellowship courses and Masters of renal nursing were on session throughout and blended learning- online and clinical practice was ongoing. The diploma in renal Nursing undertook their studies online to avoid overcrowding in the wards and clinical practice areas. There has also been a good working relationship between staff from EAKI and the renal unit KNH in research, organising of CMEs, organisation of outreach actives and Lectures.

Achievements

The institutes achievements are as follows:-

- i) Virtual graduation of four students who specialized in the Master of Science in Renal Nursing and twenty eight in the Diploma of Renal Nursing.
- ii) Admission of fifty-one students specializing in various fields.
- iii) Conducting fifteen (15) online webinars
- iv) Conducting online examinations while examining students.
- v) Organising online virtual seminars- KRACON 2020 16th – 18th October, 2020 whose Theme was Increasing access to kidney services

Projections

The Institutes future lies in the proposed state of the art facility to be built as a center of excellence of the East Africa Kidney Institute hospital and Training Center

The notice for change of use of land where the EAKI Complex has been placed in readiness for construction which was scheduled to begin in the month of April 2019. We expect the Institute to be functional by the year 2021.

Staff Portfolio

The Institute has a staff compliment of three (3).

The Director	-	Prof. Peter M. Ngugi
Snr Administrative Assistant	-	Ms. Winfred Chitere
Snr Secretary	-	Ms. Catherine Chinga

The Institute does not have teaching staff of its own it is assisted by staff from other departments.

Projections

The Institutes future lies in the proposed state of the art facility to be built as a center of excellence of the East Africa Kidney Institute hospital and Training Center

The notice for change of use of land where the EAKI Complex has been placed in readiness for construction, which began in the month of November 2019. We expect the Institute to be functional by the year 2022.

KAVI –Institute of Clinical Research

Introduction

KAVI was established in 1998 as a research unit within the Department of Medical Microbiology, School of Medicine, University of Nairobi. KAVI's initial motivation was to conduct basic HIV research, epidemiology and carry out HIV/AIDS vaccine clinical trials.

With the rapid progression of globalization and increased interest in global health issues, universities around the world have developed global health centers or institutes to spearhead research and training in global health. KAVI as a research unit progressed to be KAVI-Institute of Clinical Research (KAVI-ICR) due to the various global health issues including the pandemics.

KAVI-ICR has more than two decades of clinical research, community engagement and capacity building projects. The Institute has two sites one located at KNH Medical School Campus, University of Nairobi and a community site located within the Kangemi Health Centre, a health clinic in Nairobi County.

Whereas KAVI's skill base is predominantly in the area of infectious diseases, KAVI – ICR is collaborating with other departments within the College of Health Sciences as well as local and foreign Institutions in order to leverage the necessary skills in the advancement of research in areas of Communicable diseases, Non-communicable diseases and Knowledge translation.

Programmes

Knowledge translation involves three important processes of research, policy development and implementation. KAVI– ICR has been availing data emanating from the Institute's research projects and programmes and will continue doing so to policy makers for policy development, changes and implementation.

As part of the Institute's, mandate to capacity building, KAVI-ICR offers Doctor of Philosophy (PhD) Degrees in the following fields;

- | | | |
|-----------------------|-----------------------|--------------------------|
| - Virology | - Immunology | - Infectious Diseases |
| - Clinical Research | - Behavioural Science | - Implementation Science |
| - Operational Science | | |

Research Programmes

KAVI-ICR has been involved in carrying out phase I and phase II vaccine clinical trials over the years in addition to research aimed at understanding the epidemiology and basic science of HIV/AIDS.

This year in particular the Institute was able to execute the following protocols in partnership with different sponsors

- | | |
|------------------------------|------------------------------|
| a) Protocol W001 | e) Natural Killer (NK) Study |
| b) Protocol C100 | f) Ebola Sub-Study (Eblvacc) |
| c) Protocol Great/Hivcore006 | g) TK 18 and LTFU |
| d) Protocol O, Protocol L015 | |

Strategic Issues

The current KAVI-ICR Strategic Plan runs from the year 2018 to 2023 cascaded from the College of Health Sciences Strategic Plan. KAVI being fully donor funded has to strategies every other year to not only receive grants but to also maintain the best technical and non-technical staff for superior quality output thus having a competitive edge over other research organizations competing for the same grants. KAVI-ICR is associated with quality and that is what makes the research institute a place of choice for many donors.

The Institute naturally has financial challenges due to the current economic downturn, as a result, of competition for the few donors around the world who are still willing to fund such institutions. The challenges that require strategic planning and implementation include:

- i) Increasing the number of collaborators,
- ii) Increasing the number programs,
- iii) Increasing the number of publications in high impact peer reviewed journals,
- iv) Increasing the number of projects that impact policy,
- v) Recruiting and maintaining highly qualified scientific and non-scientific staff
- vi) Continuously maintaining properly funded research laboratory and clinics.

As noted above, KAVI-ICR has been putting tremendous effort towards achieving self-sustainability by holding onto the main donors but also diversifying to cover communicable diseases and Non-communicable diseases at the same time.

KAVI-ICR, Management

Director	Prof. Walter Jaoko
Senior Research Scientist	Prof. Omu Anzala
Clinical Trials Team Leader	Dr. Gaudensia Mutua
Basic Science Team Leader	Dr. Marianne Mureithi
Laboratory Manager	Dr. Moses Masika
Data/IT Manager	Mr. Moses Muriuki
Finance	Ms. Nancy Thairu
Administration	Mr. Bernard Omondi

Staff Portfolio

KAVI- Institute of Clinical Research has been keen over the years to develop human resource capacity for various clinical trials and programmes that it runs.

The Institutes staff members have undergone various trainings within the region (East Africa) with overseas placements also taking place. This has greatly improved the knowledge and skills of staff resulting in improved efficiency and opportunities for various types of collaboration.

During the year 2020, KAVI-ICR had the following personnel:

Designation	No. of Staff
Director	1
Senior Scientist	1
Accountant	1
Administration Manager	1
Administrator	1
Clinical Officers	4
Clinical Trial Physicians	2
Clinical Trials coordinator	1
Data Entry Clerk	3
Drivers	3
Finance Manager	1
I.C.T. Manager	1
Laboratory Manager	1
Laboratory Technologists	8
Nurse/Counsellor	9
Office Assistants	3
Pharmaceutical Technician	2
PhD Fellow	2
Receptionists	1
Stores Officer	1
Total	47

Funding and Financial Management

During the period January – December 2020, KAVI-ICR managed to attract donors/partners interested in working with the Institute. Since KAVI-ICR is fully financed by research grants, it received the following funds that were utilized in research and programmes activities;

Partner/Sponsor	Funds Received (Kshs.)
IAVI	73,721,825
GREAT (EDCTP)	6,122,085
Other EDTCP studies	2,047,809
DFG	2,287,166
CDC	411,000
Johnson & Johnson Study	425,786
Young Scientist Award	1,263,532
Total	86,279,203

Each partner has a MoU drawn and signed between them and the University of Nairobi on activities to be undertaken and the corresponding statement of works in relation to the activities.

The IAVI, GREAT, EDTCP and DFG funds are monitored for compliance and audited quarterly and/or annually as per the MoU or sub-awards.

KAVI-ICR complies fully with the University of Nairobi financial regulations and as such all the transactions and process are subjected to internal control/audit.

Community Outreach

KAVI- ICR has a well-established Community Office which proved vital in our efforts to engage community, stakeholders and policy makers. The Institute has been utilizing the already established links by our community mobilizers to reach out to the community through peer leaders as a way of encouraging sustainability even after the clinical trials or programmes are over.

The current calendar year (2020) was not very conducive for our main community activities due to the COVID -19 pandemic and as such we did not undertake the following activities that we cover every year:

World AIDS Vaccine Day:

HIV Vaccine Awareness Day (HVAD) is observed annually on May 18th 2020. This observance provides an opportunity to recognize and thank the many volunteers, community members, health professionals, and scientists who are working together to find a safe and effective preventive HIV vaccine. It is also a day to educate communities across the nation about the importance of preventive HIV vaccine research.

World AIDS Day:

World AIDS Day is held on 1 December each year and is an opportunity for people worldwide to unite in the fight against HIV, show their support for people living with HIV and to commemorate people who have died. World AIDS Day is important as it reminds the public and Government that HIV has not gone away – there is still a vital need to raise money, increase awareness, fight prejudice and improve education.

Achievements during the Year 2020

Infrastructure

During the same period, KAVI-Institute of Clinical Research in collaboration with European and Developing Countries Clinical Trials Partnership (EDTCP) finalized KAVI-ICR third floor building that is currently being utilized for research activities. The laboratories on the second floor were also refurbished in order to accommodate the current institutional requirement for CUE and other authorities.

The COVID-19 pandemic clamped down most of the activities during the year but KAVI-ICR achieved several things including the following:

Date	Item	Remarks
March 12, 2020	Public Lecture regarding COVID-19 held at the UoN by UoN Dons	Lead by Prof. Omu Anzala and Dr. Moses Masika https://kavi-icr.uonbi.ac.ke/index.php/event/public-forum-covid-19

April 6, 2020	UoN dons appointed to Advisory Board for covid-19 interventions.	Prof. Omu Anzala appointed to the National Advisory Board for Covid-19 interventions
November 11, 2020	Research Partnership agreement signed between Heinrich Pette Institute, Leibniz Institute for Experimental Virology and UoN	The partnership agreement was signed for joint research work between (Heinrich Pette Institute and UoN)
November 12, 2020	UoN dons appointed to Chair the National Laboratory Technical Advisory Committee	Prof. Omu Anzala appointed to chair the National Laboratory Technical Advisory Committee
November 29, 2020	Research Partnership agreement signed between Karolinka Institute and UoN	The partnership agreement paves way for joint research work between the two entities (Karolinka Institute and UoN)
October 21, 2020	Online Thesis defense for post graduate students	PhD student from KAVI-ICR
December 11, 2020	Virtual 64th graduation ceremony held successfully at the Great Court	PhD student from KAVI-ICR

Partnerships and Linkages

The following is a list of major Institutions that currently work/collaborates with KAVI- ICR on various research and programmes activities;

1. Clinical Research Africa Limited (CRO)
2. European and Development Countries Clinical Trials Partnership (EDCTP)
3. GlaxoSmithKline Biologicals
4. International AIDS Vaccine Initiative (IAVI)
5. International Atomic Energy Agency (IAEA) and the UNAIDS WHO African AIDS Vaccine Program (AAVP).
6. International Development Research Centre (IDRC), through Global Health Research Initiative (GHRI)
7. Janssen Pharmaceutical
8. NIAID, NIH, DHHS Division of microbiology and infectious diseases
9. The Governing Council of the University of Toronto
10. University of Manitoba
11. US Centres for Disease Control and Prevention (CDC)
12. Heinrich Pette Institute, Leibniz Institute for Experimental Virology
13. Karolinka Institute

Publications

1. Turner P, Rupali P, Opintan JA, **Jaoko W**, Feasey NA, Peacock SJ, Ashley EA (2020). Laboratory informatics capacity is a neglected component of effective antimicrobial resistance surveillance in resource-limited settings. *Lancet Infectious Diseases* (in print)
2. **Robert Langat**, **Bashir Farah**, Jackton Indangasi, Simon Ogola, **Gloria Omosa-Manyonyi**, **Omu Anzala**, Jean Bizimana, Emmanuel Tekirya, Caroline Ngetsa, Moses Silwamba, Enoch Muyanja, Paramesh Chetty, Maureen Jangano, Nancy Hills, Jill Gilmour, Len Dally, Josephine H Cox, Peter Hayes (2020). Performance of an IAVI-African Network of Clinical Research Laboratories in Standardized ELISpot and Peripheral Blood Mononuclear Cell Processing in Support of HIV Vaccine Clinical Trials. *Africa Journal of Laboratory Medicine* 10(1) (in print)
3. Milanini B, Allen I, Paul R, Bahemana E, Kiweewa F, Nambuya A, Maswai J, **Langat R**, Owuoth J, Martin S, Possin K, Esber A, Polyak C, Ake JA, Valcour V (2020). Frequency and Predictors of HIV-Related Cognitive Impairment in East Africa: The Africa Cohort Study (AFRICOS). *J Acquir Immune Defic Syndr*; 83(2):157-164. doi: 10.1097/QAI.0000000000002242. PMID: 31904698; PMCID: PMC7316185. Odera S, Mureithi M, Aballa A, Onyango N, Anzala O, Oyugi J (2020). Latent tuberculosis among household contacts of pulmonary tuberculosis cases in Nairobi, Kenya. *The Pan African Medical Journal* 37 (87)
4. Oduor JMO, Kadija E, Nyachio A, **Mureithi MW**, Skurnik M (2020). Bioprospecting *Staphylococcus* Phages with Therapeutic and Bio-Control Potential. *Viruses*. 23;12(2):133. doi: 10.3390/v12020133. PMID: 31979276; PMCID: PMC7077315.
5. Hamzah L, Boehm AB, Davis J, Pickering AJ, Wolfe M, **Mureithi M**, Harris A. (2020). Ruminant Fecal Contamination of Drinking Water Introduced Post-Collection in Rural Kenyan Households. *Int J Environ Res Public Health*. 17(2):608. doi: 10.3390/ijerph17020608. PMID: 31963600; PMCID: PMC7027003.
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Institute of Tropical and Infectious Diseases (UNITID)



Introduction

Dr. Dufton Mwaengo is the Director at the institute duplized by Prof. Julius O. Oyugi.

This is the eighteenth year since The University of Nairobi Institute of Tropical and Infectious Diseases (UNITID) was established in 2003. The Institute was established as a training and biomedical research centre under the College of Health Sciences of the University of Nairobi. The institute is a virtual institute drawing its research, academic and administrative staff from the existing University of Nairobi staff structure and other research and training institutions both locally and internationally.

Programmes and Services Offered

There are six (6) programmes offered at UNITID namely:

1. Postgraduate Diploma in Research Methodology (PGD-RM),
2. Master of Science in Tropical and Infectious Diseases (MSc. TID),
3. Master of Science in Medical Statistics (MSc. MedStat),
4. Fellowship in Healthcare Capacity Building for Sustainable Development (Health Economics, Health Informatics, Epidemiology and Biostatistics, Monitoring & Evaluation and Program Management)
5. PhD in Tropical & Infectious Diseases
6. PhD in Medical Statistics).

The Courses Duration is as follows:

Programme	Programme Duration
Postgraduate Diploma in Research Methodology	12 months
MSc. Tropical and Infectious Diseases	2 years
MSc. Medical Statistics	2 years
PhD in Tropical & Infectious Diseases	3 years
PhD in Medical Statistics	3 years
Fellowship in Healthcare Capacity Building for Sustainable Development	2 years

Strategic Issues

The Institute strategic issues are:

- Have a diversified range of training programs up to PhD level.
- Expand collaboration both locally and internationally.
- Create a state of the art teaching, training, research and practice facilities.
- Serve as a reference resource centre for management of tropical and infectious diseases.
- Mobilize resource locally, regionally and internationally for self-sustenance.
- Have an effective and efficient management structure and systems.
- Have an active and growing research programs in UNITID.
- Realize adequate and committed staff with adequate and quality physical infrastructure.
- Realize public health policy changes.

Major Achievements in the Year 2020

Date	Item	Remarks
December 23, 2020	UNITID signs an MOU with Dan Jeen University and Africal Lions Group for laboratory Capacity Building in COVID – 19 Testing.	This collaboration will lead to massive COVID Testing in the country.
December 1, 2020	UNITID was awarded a grant by NIH titled Clinical Trial with Levonorgestrel Intrauterine System Among Anemic Women in Kenya	The overall goal of this proposal is to give anemic women an opportunity to try the levonorgestrel intrauterine system and improved scientific approaches that will result to healthier living and healthier beginnings to pregnancy when desired.
May 5, 2020	Online teaching and learning commences	In response to COVID-19 pandemic, teaching and learning for MSc. Tropical and Infectious Diseases and Medical Statistics were transitioned smoothly to online platforms.
August 24, 2020 – October 9, 2020	Online examinations	Online examinations were done.

August 26, 2020	Online registration & orientation of new students	Successful enrollment and orientation of first year students conducted.
December 11, 2020	Virtual 64th Graduation Ceremony held successfully at the Great Court	21 graduands conferred degrees and awarded diplomas by the Chancellor, Dr. Vijoo Rattansi.
November 16, 2020	Online Thesis defense for post graduate students	Enabled completion and graduation of postgraduate students

Corporate and Community Outreach Activities

Deputy Director, Prof Oyugi: TV appearances, education on COVID - 19 to schools in Nairobi

Since the beginning of COVID-19 in early 2020, Prof Julius Oyugi has been educating the public on various aspects of covid19 through local and international Television networks (Aljazeera, EBRU, K24, NTV and KTN). He has also given talks to Schools on covid19. The schools include Kindu Secondary school in Kisumu County and Kilimani Little Scholars Academy in Nairobi County.

Prof. Thumbi is a Member and Chair of the Kenya COVID-19 technical team on modeling, he has appeared on various media platforms BBC News Africa, YouTube, CITIZEN TV among others educating the public on COVID-19 Disease modeling. He has done talks on and also.

Phd Student Ms. Therese Umuhoza did a webinar series on “Morbidity Burden, Seasonality and factors Associated with Respiratory Syncytial Viruses, Parainfluenza and Adenoviruses Infections in Kenya” engaging the Kenyan and Rwandese community.

Staff Portfolio

It comprises of the following:

Designation	No. of Staff
Director	1
Deputy Director	1
Senior Admin. Assistant	1
Senior Lab technologist	1
Secretary	1
Driver	1
Cleaner/Messenger	1
Total	7

Projections

- Income Generating Activity (IGA)** – In collaboration with Africa Lion Advisory Ltd (ALA), UNITID signed an MoU with ALA in December 2020 to do COVID-19 disease virus testing. In this collaboration, ALA will provide testing kits, consumables, and pay laboratory technologists while UNITID will test and release the results to clients. Once the initial investment by ALA is recovered, both partners will share the profits equally.
- Research** – UNITID has the following collaborative partners in research
 - DAKTARI Biotech – this is a US-based biotechnology company where pre-clinical testing of drugs against infectious diseases (e.g. HIV-1) will be done at UNITID laboratories. There will also be joint discovery of novel drugs by both partners

- ii) IDZOMO is a research collaboration between the UoN (Prof Mungai of EAKI) and University of Pretoria (South Africa) and Garvan Institute of Medical Research, Australia. UNITID is participating in this collaborative effort to determine the SARS-CoV-2 virus-host interactions for infected people with severe disease and those with asymptomatic infections.
- iii) FHI360 grant – this is a research grant to support a clinical trial looking at the effect of oral contraception in anemic women in Kenya. Several clinical parameters will be evaluated at UNITID labs
- iv) UNITAID/PATH project – UNITID has partnered with PATH in an effort to determine the applicability of non-invasive methods to detect childhood fevers at primary care facilities. Early diagnosis of childhood (under 5 yrs old) fevers will assist healthcare workers in rural communities identify and offer appropriate treatment to severely ill children.
- v) UNITID will continue to partner with new collaborators to write joint research grant proposals in 2021
- vi) **DTRA activities – ongoing project.** UNITID has been working with Colorado State University through a grant from DTRA to build laboratory capacity for zoonotic disease surveillance in Kajiado and Isiolo Counties since late 2019. The following are planned activities for the year 2021.
 - Validation of various Brucellosis rose Bengal test kits-UNITID- Last week of January 2021
 - Mentorship follow-up of the staff trained on SOP writing- February 2021
 - Screening of DBS for COVID19 antibodies for Kajiado and Isiolo (MSC for Esther)- start in February 2021
 - Developing training modules for Biosafety/Biosecurity-February 2021
 - Conduct clinician mentorship training on zoonotic diseases case management and one health diagnosis stewardship. This will enhance the request for laboratory testing and reinforce the need for empirical evidence when managing cases.- March 2021
 - Conduct SOP writing SOP for Isiolo and 2nd Cohort Kajiado lab staff- April 2021
 - Establishment of PCR and ELISA testing platforms at UNITID and screen serum from DBS for RVF, Q-Fever, Brucellosis and CCHF -April-May, 2021
 - Conduct training of the lab techs from Isiolo and Kajiado on Biosafety/bio security-June 2021
- vii) **UNITID-FAO planned activities.** In the year 2020 UNITID received a small grant from Food and Agriculture organization (FAO) for laboratory analysis of samples for zoonotic diseases as part of disease surveillance in Marsabit County. The following activities are planned for the year 2021.
 - Obtain Serum samples obtained from WSU for laboratory analysis.
 - Develop animal and human Sample testing protocols/SOPs
 - Test or analyse 3538 human and animal serum samples for brucellosis and Q fever

Collaborations

UNITID-Italian Embassy Collaboration

In the year 2020, UNITID was contacted by Italian Embassy for a possible collaboration between the two institutions. While the collaborations has not been fully executed the following activities have been planned to ensure the collaboration is finalized;

- A visit to Italian Embassy-planned for March 2021.
- A talk on the impact of epidemics and global health-March 2021.