

**Institution:** Makerere University  
College of Health Sciences [MakCHS]  
and Makerere School of Public Health [MakSPH]  
Kampala, Uganda  
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## LAB RESOURCES

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**Please describe the laboratory facilities available in your research institute, including the items listed below (if applicable):**

<i>Lab space and equipment (general):</i>	Adequate
<i>BSL-2 lab space and equipment:</i>	Adequate
<i>BSL-3 lab space and equipment:</i>	Provided by CDC through Makerere-Mbarara joint AIDS program; Rakai Health Science Program (RHSP)
<i>Flow cytometry equipment:</i>	Provided by CDC through Makerere-Mbarara joint AIDS program; RHSP
<i>Other:</i>	Viral load provided by Infectious Diseases Institute/Kampala at a cost; RHSP

**Please list the research groups in your institute, including the size and areas of expertise for each group:**

- Infectious Diseases Institute/Kampala: HIV/AIDS research
- MJAP: AIDS research
- Baylor College: HIV/AIDS
- Case Western Reserve University: TB program



- Makerere University School of Public Health: Monitoring and Evaluation Technical Assistance (UCSF) and CDC Fellowship Program, and collaboration with Rakai Health Sciences Program (RHSP)

## **BIOLOGICAL SPECIMEN REPOSITORY**

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**Please describe the biological specimens stored at your institute**

- Blood

**Does your institute have a database of stored samples:** Yes

**Please provide details on methods for biological specimen storage at your institute (e.g., are Standardized Operating Procedures used?):**

- Approval is sought from institutional review board to allow storage

**Please describe the equipment/facilities available for sample storage at your institute, including items listed below (if applicable):**

<i>-80C freezers</i>	adequate
<i>Nitrogen storage tanks</i>	not seen one
<i>Dry ice availability</i>	not seen one
<i>Use of a nitrogen generator</i>	not seen one

## **TRAINING AND EDUCATION**

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**Please describe the training initiatives your institution has in place for individuals prior to working in clinical studies?**

- Intensive formal training

**Please describe the training initiatives your institution has in place for individuals prior to working in the laboratory?**

- Intensive formal training

**What assays/techniques do you excel in at your institute?**

- Journal club presentations

**What training could you provide to visiting scientists?**

- Formal overview on common diseases.

**What rank are the majority of your trainees? (e.g., approximate numbers of undergraduate students, Masters, PhD, post-doc, MDs)**

- Undergraduates
- Annual student enrolment at MakSPH (Makerere School of Public Health) is nearly 300 and 2/3 of students are graduates

**Research-related short courses offered:**

- (i) Applied Biostatistics I
- (ii) Applied Biostatistics II-Logistic regression
- (iii) Principles and Practice of Epidemiology
- (iv) Clinical and Community trials

**Do you offer training classes/courses for any of the following?**

- Presentation skills
- Clinical teachings

**Does your institute receive funds to support training initiatives?** Yes

**Please provide details about the funds your institute receive to support training initiatives.**

- Fogarty International Center/NIH
- CDC

**Does your institution send trainees abroad for additional training?** Yes

**Please indicate the number of trainees sent abroad per year, the source of funding, the location of training, and the type of training received.**

- 5 NIH, exchange programs with U.S./Canadian institutions. Obtain fellowships and certificate courses.

**What Masters and/or Doctoral programs does your institution offer?**

- Masters in Medicine
- Master of Public Health (MPH) Full time 2 years;
- Master of Public Health (MPH) Distance Education 3 years;
- Master of Health Services Research 2 years;
- Master of public Health Nutrition; 2 years);

- Other courses in the pipeline (Master of Disaster Management and Master of M&E)

## **COLLABORATIONS**

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**Please list and briefly describe your current collaboration with any African institutions for either research or training purposes.**

- Uganda: Mbarara University of Science and Technology: joint AIDS research program
- Other Universities in Africa: University of Pretoria and University of Cape Town (South Africa), University of Ghana, National University of Rwanda and Umutala polytechnic in Rwanda, Kinshasa University (DRC), Muhimbili University of Health Science (MUHAS) in Tanzania, Nairobi University and Moi University in Kenya, University of Zimbabwe, Makele University in Addis and Jimma (Ethiopia)

**Please list your institution's plans for future collaborations within African (additional groups, sites, countries, etc.)**

- With groups from Zambia

**Please list and briefly describe your institution's collaborations and/or partnerships with entities outside of Africa (e.g., organizations and networks in the USA, Europe, etc. – including CFARS, NIH clinical trials networks, HPTN, HVTN, AMC, leDEA, USAID, PEPFAR, etc.)**

- NIH, PEPFAR, USAID, CDC

## **CLINICAL COHORTS**

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**Do you have access to existing clinical cohorts in Africa or USA?**      No

**Are you planning to establish any new clinical cohorts over the next 5 years?**  
Yes

**Please describe the clinical cohorts that you are planning to establish, including specifics such as “HIV-TB infected HAART naïve adults”, sample type, sex, and age.**

- Adult HIV positive patients in a regional hospital
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## **DATA MANAGEMENT**

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**Please describe the DATA MANAGEMENT FACILITIES available in research institute, including the items listed below (if applicable):**

*Data management expertise, including staff complement (general):*

- Statisticians

*On-site database design, implementation and trouble-shooting:*

- IT specialist and statisticians

## **BIOSTATISTICAL SUPPORT**

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**Please describe the BIOSTATISTICAL SUPPORT available in your research institute, including the items listed below (if applicable):**

*Biostatistical expertise, including staff complement/composition of PhD and Masters level biostatisticians:*

- Not my field, but staff are available
- Department of Epidemiology and Statistics with several experienced statisticians at PhD and MS level exist at MakSPH

*Specific areas of biostatistical expertise/excellence:*

- Can't comment much, but staff are available

## MAKERERE UNIVERSITY SCHOOL OF PUBLIC HEALTH

### Capability Statement

The Makerere University School of Public Health (MUSPH) is one of the leading Public Health education and research institutions in Sub-Saharan Africa. It conducts research and provides consultation services to the Government of Uganda, various national and international health organisations, as well as bilateral and multilateral agencies involved in health. The School's annual research budget is over US \$ 5 million, and its faculty produce an average of 25 scientific publications in peer reviewed journals per year. In the year 2000 it became a semi-autonomous School with the five departments of a) Health Policy, Planning and Management, b) Epidemiology and Biostatistics, c) Disease Control and Environmental Health, d) Community Health and Behavioural Sciences and d) a Regional Centre for Quality of Health Care (RCQoHC), with a regional mandate to support improvement in quality of health care. From July 2008, the MUSPH joined with the former Faculty of Medicine to form the Makerere University College of Health Sciences (MUCHS), a constituent College of Makerere University.

The School has as its vision to be a "Centre of excellence, providing leadership in Public Health". The mission of MUSPH is **"To promote the attainment of better health for the people of Uganda and beyond through Public Health Training, Research and Community service, with the guiding principles of Quality, Relevance, Responsiveness, Equity and Social Justice"**. The School has 3 basic core functions of teaching, research and service. In addition to its primary mandate of capacity building and research in Public Health, it collaborates with the Ugandan Ministry of Health (MOH) and with district, municipal and city local governments, international agencies and non-governmental organizations (NGOs) in supporting the planning, implementation and evaluation of health programs. Over the years, the particular focus of MUSPH activities has been on education and research in health planning and management, health systems, policy analysis in health, nutrition and population, epidemiology and control of infectious diseases such as HIV/AIDS and malaria, reproductive health, child health, emerging pandemic diseases, public health in complex emergencies and environmental health concerns.

The school has the following training programs: Undergraduate Bachelor of Environmental Health Sciences, and Postgraduate programs, namely Master of Public Health (Both Full time and Distance Learning), Master of Health Services Research, and Master of Public Health Nutrition. It also carries out short term courses including Strategic Leadership for Health, Monitoring and Evaluation, certificate in Health services Management, Health Systems Management and also runs a post graduate Fellowship in HIV/AIDS program management and many others.

The School has got a total of 94 staff (58 academic and 36 administrative, support and technical staff). The School has 15 District field training sites under the Master of Public Health program. At these sites, both undergraduate and postgraduate students work with the District health teams to identify health problems and address them through evidence based approaches.

MUSPH has got numerous long-standing capacity building and research collaborations with Universities such as Karolinska Institutet, Columbia University, London School of Hygiene and Tropical Medicine, Wisconsin University Madison, Harvard School of Public Health, Johns Hopkins School of Public Health, Tulane University, Case Western Reserve University, University of Alberta, Swiss Tropical Institute, Muhimbili University of Health and Allied Sciences, School of Public Health, National University of Rwanda (NUR), University of Western Cape South Africa, Jimma University Ethiopia, Kinshasa University School of Public Health, School of Public Health Moi University, University of Bergen, Norway, and other reputable institutions around the world.

MUSPH also has experience in conducting policy-relevant action oriented community and population-based studies. These include the Rakai Health Sciences Program (RHSP), the Kayunga Cohort

Development (CODE) study of the Makerere University Walter Reed Project (MUWRP), the Academic Alliance for AIDS Care and Prevention in Africa, Gates Grant for HIV and the Iganga and Mayuge Demographic Surveillance Site (DSS). Other studies conducted by the School cover areas of monitoring and evaluation, nutrition, environment, health systems, and human resources for health. Periodically, the School gets contracted by the different organizations including Ministries of Health, Uganda AIDS commission, and other ministries like Agriculture and Local Government, Districts, NGOs and bilateral or multi-lateral agencies like DFID and DANIDA to provide consultancy services.

The School collaborates with Ministry of Health (MOH), Districts, Ministry of Local Government (MOLG), international organizations and non-government organizations (NGO) in planning and implementation of health programs.

Some of the recent research and consultancy work done by MUSPH includes the following:

1. CDC/MUSPH HIV/AIDS Post graduate fellowship program which has been running for the last ten years creating capacity for Leadership and management for HIV/AIDS programs in Uganda
2. Grant from SIDA and DFID to generate Lessons from the early national experiences of The Global Fund
3. Grant from WHO and Gates Foundation to evaluate IMCI programs with collaboration of Johns Hopkins University
4. Grant from World bank for the evaluation of performance-based contracting pilot of MOH in Uganda.
5. Grant to study system factor dynamics and causal pathways for Immunization program in Uganda
6. Consultance by the World Bank to generate approaches for evaluating the health workforce dynamics in the context of HIV programs
7. Grant from WHO for Impacts assessment of HIV programs on the health workforce in Uganda
8. Grant from WHO for Systematic review of programs to expand the workforce enrollment
9. USAID grant for Leadership Initiative for Public Health in East Africa- Capacity building for Health professionals in the region
10. USAID Grant for Health Emergency Management Program- Capacity Building for Disaster preparedness and response at district level.
11. WHO/TDR grant to assess community treatment of fevers in Uganda
12. WHO/ Gates and Melinda Gates funded Center for Tobacco Control in Africa