

Training, Mentoring & Funding Community Health Research

July 2021 MicroResearch

Training Graduates &

Research Projects



MicroResearch Workshop in Mangochi, Malawi – February, 2021

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The concept – small locally driven multidisciplinary health research teams developing research projects to improve health outcomes – starts with multidisciplinary research training workshops with hands-on research proposal development.

Learning how to ask the questions that will address their problems

Our Values

PASSION : Deeply rooted conviction and energy for everything MicroResearch represents.	INNOVATION : Steadfast commitment to improving health in the developing world.	COLLABORATION : Working collaboratively in multidisciplinary teams of health and other professionals to deliver on our promise.
COMPASSION : Demonstrated	RESPECT : Commitment to	CULTURE : Unequivocal pursuit
identification with humanity	pursue the questions that	of capacity building, human
through the work of	matter and are identified by the	resource development and a
MicroResearch.	people we serve.	healthy environment.

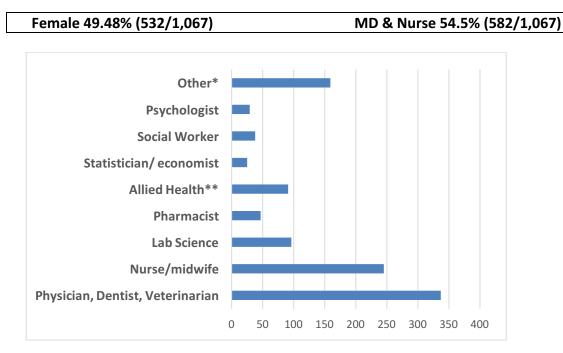
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Drs. Robert (Bob) Bortolussi and Noni MacDonald, Co-Directors

Email: microresearch@dal.ca

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Since 2008, 48 training workshops have been held in Kenya, Tanzania, Uganda, Malawi, Ethiopia, Rwanda, Nepal, and Guyana resulting in **1,143 graduates.** This includes all participants from Standard MR Workshops, Writing Workshops, Train the Trainer Workshops, and Post-Graduate Training Workshops.



*Other: computer sci, ethno-botanist, librarian, accountant, development officer, management secretary, lawyer, engineer ** Allied Health: occupational therapist, dental technologist, nutritionist

Figure does not include 22 (of 1,067) graduates with unstated professions or gender and does not include participants from Writer's Workshops or Train the Trainer workshops

Summary of MicroResearch Standard Research Training Workshops and Out								
	2008 -	2010-	2012 -	2014 -	2016 -	2018	2020 -	Total
	2009	2011	2013	2015	2017	- 2019	2021	
Participants	21	110	256	284	178	168	69	1,086
Workshops	1	5	9	10	8	7	3	43
Taama Duaisata	3	17	20	45	20	20	1.4	171
Team Projects	3	17	36	45	28	28	14	171
Developed								
Projects submitted to	1	19	27	22	36	24	21	150
MR ¹								
Projects launched ²	1	9	17	36	27	23	12	125
Projects completed as of July 2021						46		
Pub Med Journal publication or Book Chapters as of July 2021						48		

Summary of MicroResearch Standard Research Training Workshops and Outcomes

1. Proposals submitted for international peer review via MicroResearch; 2. Includes projects meeting MicroResearch scientific approval and local ethics approval, 2nd projects from MicroResearch teams, as well as Knowledge Translation projects

	-	and Post-Graduate Thesis Development Workshops				
	2017	2018	2019	2020*	2021*	Total
Writing Workshops	-	-	1	2	1	4
Writing Workshop Participants	-	-	23	21	10	54
Train the Trainer Workshops	-	-	-	1	3	4
Train the Trainer Participants	-	-	-	14	37	51
Thesis Development Workshops	1	1	1	1	-	4
Thesis Development Workshop Participants	13	13	6	13	-	45

Summary of MicroResearch Training Workshops and Outcomes for Writing Workshops, Train the Trainer Workshops, and Post-Graduate Thesis Development Workshops

*All workshops conducted in 2020 and 2021 were virtual, with the exception of the MUST Writing Workshop in January, 2020



MicroResearch Workshop at Mangochi, Malawi – February, 2021

MicroResearch Related Publications

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- 14. Beinempaka F, Tibanyendera B, Atwine F, Kyomuhangi T, Kabakyenga J, MacDonald NE. Traditional rituals and customs for pregnant women in selected villages in Southwest Uganda. J Obstet Gynaecol Can. 2015;37(10):899–900.
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Selected Research Projects by MicroResearch Graduates

Title & Project Team Leader	Location	Lay Description
		2008 & 2009
Assessment of activities and impact of community owned resource persons (CORPS) on families and communities in Healthy Child Uganda Bwizibwera Project Area.	Mbarara, Uganda	This study was designed to assess the activities and impact of the CORPS in the aspect of immunization. It was of the descriptive cross-sectional design, done in six villages in the sub-counties of Kashari and Rwanyamahembe. The sample size was 70 households which were randomly selected. Data were collected using a pretested questionnaire and focus group discussions. From the study findings, respondents had adequate knowledge about activities of the CORPs
PTL: Basil Tibanyendera		and they are the main source of information about immunization. However respondents had limited knowledge about immunisable
Status:		diseases and ages of immunization against such diseases. Generally
✓ Project completed		there has been an increase in the immunization levels among children
✓ Report to MicroResearch		under 5 years of age in the operational areas of CORPs and hence a
✓ Presented to local health		considerable reduction in incidences of immunisable diseases among
authorities & Health Child		the children in Bwizibwera HCU project area.
Uganda		
Efficacy of Glutamine	Kampala,	Since persistent diarrhea is a major cause of death in infants in sub-
Supplementation on the	Uganda	Sahara Africa, 138 infants with persistent diarrhea were randomized
outcome of children admitted		to receive either standard treatment or standard treatment with
with persistent diarrhea to		Glutamine supplement. Although glutamine was reported to be
Mulago hospital.		beneficial in other studies, no benefit was shown in this prospective
PTL: Justine Kamuchaki		study.
Status:		
✓ Project completed		
✓ Published: Paediatrics &		
Child Health 2013;18(1):e1		
✓ Published: Pediatric		
Infectious Disease Journal		
20 <mark>13;32(5):573-6</mark>		
	STREET, STREET	



Founding MicroResearch Class Mbarara University of Science and Technology 2008; MicroResearch Team 2008: PTL: Basil Tibanyendera – Photo by Beebwa Esther- the team member not in photo

		2010
The practice of traditional	Mbarara,	Many Akole traditional birth customs are contrary to World Health
rituals and customs in newborns	Uganda	Organization recommended newborn health care practices. Health
by mothers in selected villages		care practitioners need a deeper understanding of these rituals in
in Southwest Uganda.		order to modernize them for better maternal neonatal care. Ignoring
		them will not eliminate them. Prevention and intervention steps
PTL: Florence Beinempaka		might include providing VHTs with context based education to help
		them address these practices with pregnant women and with the
Status:		community combined with protocol development to enhance VHTs
✓ Project completed		recognition of newborns at risk needing close follow up and early
✓ Published: Paediatrics &		referral for formal health care.
Child Health 2014;19:72.		
✓ Published: Journal of		
Obstetricians and		
Gynecologists of Canada		
2015;37(10): 899-900		
✓ Presented to Ministry of		
Health, Uganda		
Knowledge and Practices of	Mbarara,	90% of the 2.5 million children younger than 15 years living with HIV
Women Regarding PMTCT in	Uganda	were infected by their mothers during pregnancy, labour and
Mwizi Sub-county		breastfeeding. 95% of the children live in the Sub-Saharan Africa. It's
		therefore important that women of child-bearing age (15-49 years)
PTL: Barnabas Atwiine		know and practice the methods of preventing transmitting the
		infection to their children. This research is aimed at finding out what
Status:		the women in a rural Ugandan sub-county know about the prevention
✓ Project completed		of HIV from infected mothers to their babies. We shall send research
✓ Published: International		assistants to interview a hundred women in this sub-county. Their
Journal of Infectious		responses will be analyzed into themes and recommendations will be
Diseases 2013;17:e211-2		made to inform policy makers and health educators concerning this
✓ Presented to local health		subject for rural Ugandan women.
authorities & Health Child		
Uganda		



MUST MR Workshop Class 2010

Francis O Oriokot, 2010 workshop participant speaking on behalf of other MUST workshop participants:

"'A fatal pedagogic error is to throw answers, like stones, at the heads of those, who have yet to ask any questions' (attributed to Steve Biko). What the Micro-Research Workshop has done is provide the tools to ask questions important to us. Thanks and best wishes."

The impact of the MIT new here	Makanara	Davi natal audit is a tool used by boolth workers to seems the
The impact of the VHT new born	Makerere	Peri-natal audit is a tool used by health workers to assess the
strategy in reducing perinatal	Uganda	mortality rates during the neonatal period. Our project aims to
deaths in a rural district of		establish the impact of the Village Health Team newborn strategy
Uganda.		which has been launched in Uganda in 2010. The project will
		conduct community verbal autopsy as baseline in Bamunanika
PTL: Isha Grant		County, Luweero District in Uganda. Thereafter, utilize the Village
		Health Team members who were trained on essential newborn
Status:		care to conduct community training of the newborn care package.
✓ Project completed		This group will work with the Village Health Team members, local
✓ Published: Paediatrics &		leaders and in addition Save the Children in Uganda, Saving
Child Health 2014; 19:333.		Newborn Lives team will provide technical and logistic support.
 Presented to Ministry of 		Evaluation will be done 12 months later to assess the value of this
Health, Uganda		project in reducing neonatal mortality at community level.
Frequency of malaria resulting	Makerere	Malaria affects mainly people with low immunity like pregnant
in hospital admission among	Uganda	women causing poor health outcomes such as maternal anemia,
pregnant women and its		spontaneous abortions. Malaria also leads to low birth weight,
association with IPT use.		increased risk of anemia in infants which are risk factors for poor
		infant outcomes such as mental retardation and infant mortality.
PTL: Freddy Eric Kitutu		To prevent malaria during pregnancy, pregnant women are given
		at least two doses of sulfadoxine/pyrimethamine (SP) as
Status:		intermittent preventive treatment (IPT). This study will determine
✓ Project completed		the relationship between the number of hospitalizations due to
✓ Report to MicroResearch		malaria and the use of IPT in pregnancy.
Healthy Child Uganda survey on	Mbarara,	The attitudes, knowledge and behaviour of the VHT members may
Village Health Team Knowledge,	Uganda	play crucial role in implementation, effectiveness and
Attitudes and Behaviour of		sustainability of the program. Most studies of community health
VHTs towards their		workers are from south Asia with few having been done in Africa,
responsibilities in Mbarara		many of which have assessed community health workers'
District.		neonatal programs rather than 'integrated' child health programs.
		Most large studies have looked at community health workers
PTL: Ashaba Scholastic		providing at least some component of curative care (i.e. medicine
		distribution) while the effectiveness of community health workers
Status:		serving in a 'health promotion-only' role has not been well
✓ Project completed		established, despite potential cost and sustainability benefits. No
✓ Published: Paediatrics &		such studies have been done in Uganda to evaluate the
Child Health 2012;17:e89		knowledge, attitudes and behaviour of village health teams
✓ Presented to local health		towards their work.
authorities and Health Child		
Uganda		

Comments from MR participants 2011:

"Integration of community engagement in the lectures was great given that communities' effective involvement in projects leads to success. I do believe that what I and other members have achieved will help the improvement of the health standards in this region."

The impact of Community Owned Resource Persons on reducing malnutrition among children less than two years in three health Sub Districts in Mbarara and Bushenyi. PTL: Moses Ntaro Status: ✓ Project completed ✓ Presented to Healthy Child	Mbarara, Uganda	The research will explore secondary data that was collected on children during the baseline in 2006 and the endline survey in 2009. On addition some data for validation will be collected. The primary purpose of the study is to determine whether the Community Health Volunteer (CHVs) program reduced malnutrition. To achieve this, the researcher will focus on the main activities that were normally conducted by the CHVs and test if there is any statistical relationship. The study will further explore if social demographic factors contributed significantly to the reduction in malnutrition. The data will be further cleaned and new variables created so that various statistical associations can be analysed.
Uganda Relationship between socioeconomic status and neonatal sepsis in Mbarara, Uganda. PTL: Tusiimire Jonans Status: ✓ Project completed ✓ Presented to Healthy Child Uganda and local health authority	Mbarara, Uganda	Although there is scarcity of documented data in Uganda, a developing country, anecdotal evidence suggests that socioeconomic status of households may be inexplicably linked to the likelihood of a baby getting infection in its first 28 days of life. The general objective of our research is to measure socioeconomic status in households where neonates develop sepsis and compare it with that of households where neonates do not develop sepsis to understand the relationship between socioeconomic status and neonatal sepsis in Mbarara, Uganda. To attain this objective, we will interview mothers of babies admitted with sepsis and of those who do not have sepsis.
Assessing the relationship between social support system and nutrition status among children under 5 years. PTL: Natukwatsa Amon Status: ✓ Project completed ✓ Report pending to Healthy Child Uganda	Mbarara, Uganda	The study will be carried out in Kyera parish in South Western Uganda and will describe in-depth the little-studied relationship between social support system and nutritional status among children under 5 years. A combination of qualitative and quantitative approaches will be adopted during the study. A qualitative approach enjoys a number of merits such as flexibility and ability to generate in-depth information The method will provide an opportunity for participants to directly and interactively 'tell their story' concerning the relationship between social support system and nutritional status of children.



MicroResearch Workshop Mbarara, Uganda 2012

Couples HIV counseling and	Makerere	The purpose of this research is to identify understand and
testing: factors influencing its	Uganda	document the factors that are influencing the uptake of couple HIV
uptake.		counseling and testing in Mukono district in Uganda. This study
		will enable programs and the district to implement a culturally
PTL: Nannozi Victoria		sensitive program. The information obtained will be shared with
		the different stakeholders with the intention of developing clear
Status:		action plans for implementation. These stakeholders will include
✓ Project completed		MOH, Mukono district Local government officials, the partners in
✓ Report to MicroResearch		HTC and representatives from the community in which the
✓ Published: Global Health		research was carried out.
Promotion 2016: 24(4): 33-		
42.		
✓ Published: BMC Public		
Health 2017; 17:104.		
Knowledge and current	Mbarara	Malnutrition remains a big problem in Uganda affecting 38% of
practices of Village Health	Uganda	children in South Western Uganda. The Ministry of Health
Teams in early detection and		interventions to address this problem together with organizations
care of young children with		such as UNICEF, Health Child Uganda is to roll out the Village
malnutrition in Healthy Child		Health Team (VHT) strategy to manage malnutrition at a
Uganda supported communities		community level. We intend to carry out a survey to determine the
in Mwizi Sub County, Uganda.		knowledge and current practices of VHTs members in early
		detection and care for young children (under 5years) with
PTL: Elizabeth Kemigisha		malnutrition in Mwizi Sub County, in South Western Uganda. To
		do this we shall administer structured questionnaires to selected
Status:		VHTs in the HCU supported areas and conduct focus group
✓ Project completed		discussions to establish factors contributing to malnutrition in this
 ✓ Report to MicroResearch, 		region. Data will be entered into Epidata and analyzed by Stata
combined with project in		software. Qualitative data from FGDs will be transcribed and
2014		themes established and analyzed by thematic analysis.
✓ Published Can J Public Health		
2016; 109: e486-7		
✓ Presented to Healthy Child		
Uganda and local health		
authority		

 Knowledge, Attitudes and Practices about blood donation in rural communities of Kiruhura District, South Western Uganda. PTL: Natukunda Peace Status: ✓ Project completed ✓ Published Journal of Obstetricians and Gynecologists of Canada 2015; 37(10):903–904 ✓ Presented to local health 	Mbarara Uganda	Blood transfusion is a vital element of health care system in Uganda. Much (75%) of donated blood is used by children with different conditions and pregnant women with complications of pregnancy and/or child birth. Children with different conditions requiring transfusion use more than a half (50%) of donated blood. Therefore, to reduce maternal and child mortality in Uganda and meet MDGS related to child health and maternal health by 2015, there is an urgent need to ensure a sustained supply of adequate units of safe blood throughout the year. In Uganda, 100% of blood is donated by voluntary non-remunerated blood donors and majority of whom 90% are secondary school students. This indicates that during school holidays, communities become a major source of blood.
authority Maternal mental health and Malnutrition in children admitted in Mbarara Regional Referral Hospital in South Western Uganda. PTL: Ashaba Scholastic Status: ✓ Project completed ✓ Published BMC Public Health 2015;15:1303 ✓ Presented to local health authority	Mbarara, Uganda	Malnutrition remains one of the most significant child health problems in developing countries with about 53 % of child deaths/y due to underweight. 2011 Uganda Demographic and Health Survey (UDHS) showed that 38 % of the children were stunted and 16 % were underweight. While dietary and environmental factors are known major contributors to children's nutritional status, maternal depression may also contribute since it disrupts the mothers' ability to cope with demands of childcare. This study aimed to determine the association between maternal depression and malnutrition in children aged one to 5 years in southwest Uganda.
The Lived experience of VHT members in the Kinoni Health sub-district South West Uganda. PTL: Clare Kyokushaba Status: ✓ Project completed ✓ Abstract presented 2017 ✓ Presented 1st International Symposium on Community Health Workers. Kampala, Uganda 2017 ✓ Published: BMC Proceedings 2017 11(Suppl 6): 067	Mbarara, Uganda	This project uses random sampling to select 4 villages from the 6 parishes in Kinoni Health sub-district from which purposive sampling of VHTs and local leaders in each of the villages will be done. In-depth interviews will be conducted with the study participants and the interviews will be audio-recorded and transcribed verbatim. Field notes will be taken during the interviews and incorporated into written transcripts. Individual VHT members will be targeted for these interviews and Key informants will be targeted to provide the information on the context in which the VHTs perform their duties. Interviews will be followed by Focus group discussions which will be organized for randomly selected VHTs to provide more information on the commonly arising themes. Four FGDs will be held with a minimum of 8 participants per focus group discussion and we shall have one FGD in each of the selected villages.

Role of income generating	Mbarara,	Village health team mobilization and awareness:
activities in motivation and	Uganda	Conduct focus group discussion with the VHTs and Key informant
retention of Village Health	- 8	Interviews
Teams in the Kinoni health sub-		Data analysis
district.		Report writing
PTL: David Tumusiime Katuruba		Meeting to discuss the findings
		Meeting to prepare the dissemination
Status:		Dissemination to the VHTs, community leaders, policy
		makers, district leaders and other stake holders
✓ Project completed		
✓ Report submitted Healthy		
Child Uganda		
Teenage antenatal services:		Maternal mortality remains a serious problem in Uganda with
Availability, accessibility and		concerns about Uganda's ability to achieve the Millenium Goal 5A
utilization of teenager friendly		to decrease maternal mortality rate from 1990 by three quarters
antenatal services in Mbarara		by 2015. Female teenagers' sexual and reproductive health in
Municipality, South Western		Uganda is worsened by their poor health care seeking behaviour
Uganda		and the limited options for teen friendly care. This is of serious
		concern as approximately one in four falls pregnant each year and
PTL: Geoffrey Zari Rukundo		many have difficulty accessing services as there are a multitude of
		barriers. This MicroResearch group will examine the barriers to
Status:		care in the municipality of Mbarara in south west Uganda. This
✓ Project completed		cross-sectional qualitative descriptive study will determine the
✓ Published: BMC Pregnancy		factors which influence the accessibility and utilization of
and Childbirth 2015;15(351):		antenatal services by teenagers.
1-5.		
✓ Published: Midwifery 2019;		
72: 74-79.		
✓ Presented at MUST		



MicroResearch Workshop 2012 University of Nairobi

Comments from MR participants 2012:

"You have made it possible for me to meet the people I should have met 5 years ago, who can help me in my research."

"I do believe that what I and other members have achieved will help on the improvement of the health standards in this region."

"I will share ideas and apply what I learned in my new job."

	2013			
Use of mobile phones to improve the antenatal care attendance of pregnant women in semi-urban south eastern Tanzania. PTL: Zabron Abel Status: ✓ Project completed ✓ Report submitted Assessment of Knowledge, practices and attitudes on Exclusive Breast Feeding (EBF) among mothers attending Ifakara Reproductive and Child Health Clinic (RCHC). PTL: Janeth Katana Bulemela Status: ✓ Project completed ✓ Report submitted ✓ Published: International Breastfeeding Journal (2019): 14(1): 1-7. ✓ Project presented at MR Forum 2021	Ifakara, Tanzania Ifakara, Tanzania	The Maternal and child health has a high priority on the global agenda most prominently underlined in the Millennium Development goals 4 and 5 which address the reduction of Child mortality and improve maternal health respectively. The risk of maternal death is estimated to be 50 times higher in Sub-Saharan Africa compared to developed countries and this inequality is considered the largest discrepancy of all public health statistics. Pregnancy monitoring and detection of complications are the main objectives of antenatal care. WHO recommends the total number of visits for a pregnant woman should be at least 4 visits in developing countries. The project intends to make use of mobile phones to make call reminders to pregnant women to attend the antenatal care at the particular health facilities. This takes advantage of the widespread coverage of mobile phones network, whereby the study area approximately 75% of the population has mobile phone or has access to mobile phone. This project involves focus groups with nurses working in women and children clinic, women in villages from 3 different sites and nurses working in hospital where there are delivered women. A separate mini questionnaire of almost similar questions will be used to question the practice, knowledge and attitudes on breastfeeding of mothers in Ifakara as perceived by these people. Then next step will be to interview consented women of babies of within one year of age and their partners at the RCH clinic about the same issues discussed and particularly what are the men supports. The interview will be guided by the designed questionnaire. Men should not be necessary partners of the interviewed women.		
The determinants of partograph use in Mulago Referral Hospital Labour Ward: Health workers perspective. PTL: Patrick Lumala Zzimbe Status: ✓ Project completed ✓ Report submitted ✓ Published BMC Health Services Research 2019;19(107) 1-8.	Makerere Uganda	Every year, a high number of mothers lose their lives during child birth in low and middle income countries due to prolonged labour. These deaths could be prevented by careful monitoring of labour guided by use of partograph. This study is set out to determine partograph use and user perspectives of this tool. We plan on obtaining qualitative and quantitative data about the use of partograph and the perception of this tool among health workers. We shall train four research assistants who will administer the questionnaire under close supervision of investigators. The data collection shall run for one month and data shall be compiled at weekly basis which shall be followed by data analysis and report writing. The findings shall be presented to Mulago Hospital and other stakeholders and policy recommendation shall be presented to the ministry of Health in Uganda.		

 Reasons for and determinants of non-adherence to the UNEPI vaccination schedule among children in Kyabugimbi PTL: Barnabas Atwiine Status: ✓ Project completed ✓ Project completed ✓ Published Can J Public health 2015; 106: e 564 ✓ Presented to Healthy Child Uganda and local health authority 	Mbarara, Uganda	Only 52% of Ugandan children below 5 years of age are fully immunized, the lowest immunization coverage rate in East Africa, and one of the lowest in Africa. This denies children one of the most cost effective methods of disease-prevention and indeed, the country has suffered numerous measles outbreaks in the recent past. No local study has explored the reasons as to why there is low coverage of immunization coverage and the factors associated with failure to complete the immunization schedule, which our study aims at. We shall do this by interviewing primary caregivers of unimmunized and partially immunized children about their reasons and family characteristics.
Factors Associated with Delayed Presentation of Children with Malaria to Kazo Health Centre PTL: Imelda Kemeza	Mbarara, Uganda	We shall conduct a cross sectional, descriptive and analytical study on adult care givers from Kazo Health Centre IV, in Kiruhura district whose children below 5years have a positive blood slide or Rapid Diagnostic Test with one or more symptoms of malaria and have consented. We shall interview adult care givers consecutively till
 Status: ✓ Project completed ✓ Report submitted ✓ Article being prepared for publication ✓ Presented to Healthy Child Uganda and local health authority 		380 respondents whose children meet the inclusion criteria. The interviews will be audio-recorded and transcribed verbatim. Field notes will be taken during the interviews and incorporated into written transcripts. Individual adult care giver will be targeted for these interviews to provide the information on the early and delayed presentation of children below five years with malaria to a health facility. Interviews will be subsequent to a questionnaire on demographic and clinical information associated with malaria.
 Knowledge and Perception of Parents on Under-Nutrition of Children under 5 years receiving outpatient services in, Nairobi PTL: Ednah Ojee Status: ✓ Project completed ✓ Poster presented: Int Ped Association Conference, 	Nairobi, Kenya	The study seeks to explore the relationship between caregiver knowledge, socioeconomic status and nutritional status of children in the densely populated Eastern area of Nairobi-Kenya's capital city. Caregiver knowledge on nutrition will be assessed using a questionnaire with open and closed ended questions administered by trained interviewers to the caregivers attending outpatient clinic with children in either Kiswahili or English. The questions will cover-source of knowledge on nutrition and diet, feeding practises, food hygiene and illness associated with under- nutrition. These results will then be compared to the children's nutritional status using the international standard acceptable for
 Vancouver 2017 ✓ Presented Africa Health Agenda Int Conference, Nairobi 2018 ✓ Article being prepared for publication 		classifying nutrition status of a child; using the weight and circumference of the left mid upper arm. The outcome of the study will give a basis to advocate for improved health education programs and by extension achieving millennium development goals with reference to child health and maternal health.

Hepatitis B Vaccination	Nairobi,	There is a high incidence of Hepatitis B Virus (HBV) infection in
Coverage and Influencing	Kenya	Kenya, with HBsAg carrier rate of >9.3%. Although a safe and
Factors among Healthcare		effective vaccine is available, the vaccination coverage among
Students at Kenya Medical		health care workers (HCW) is low (13% to 56%). A "catch-up"
Training College, Kenya		strategy targeted at unvaccinated adolescents or health care
		students (HCS) is non existent. Published studies on HCS
PTL: Leah Bii		vaccination in Kenya are unavailable. The study will determine
		HBV vaccination coverage rate and factors influencing
Status:		immunization among students at the Kenya Medical Training
✓ Project completed		College (KMTC).
✓ Published: BMC Public		
Health. 2020 Dec;20(1):1-2.		

Comments from MR participants 2013:

"Small projects are the cornerstone on which research skills are built and wider spectrum of potential researchers reached with excellent outcomes."

"Allocate more resources to support MicroResearch, as this is the only way to go about resolving challenges faced in our communities."



MicroResearch workshop Mbarara, Uganda 2013; Mother and child arriving at clinic, Busheyni District Uganda

Line of Kanada days Tanada ti	NA - L	The next involves and lated MD next (2011) show that the
Use of Knowledge Translation	Makerere	The previously completed MR project (2011) showed that cord
principles and exchange to	Uganda	sepsis is a serious problem causing neonatal deaths in Luwero
disseminate results of newborn		District. The next step is knowledge translation of these findings.
death audits to Luwero District		The project will apply qualitative methods through a detailed KT
Health Team		Plan with the following KT goals;
		1. To increase awareness of the problems with traditional cord
PTL: Eisha Grant		related practices in Bamunanika Sub- County Luwero District
		2. To increase interest to support WHO good cord care
Status:		practices in Bamunanika Sub-county Luwero District
✓ Project completed		3. To promote behavioural change on traditional cord care
✓ Report given to Ministry of		practices among mothers in Bamunanika Sub County Luwero
Health in Uganda		District
✓ MOH has changed policy		
based upon this		
✓ Chlorhexidine gel now locally		
manufactured and		
distributed in "Mama packs"		

 Knowledge, Attitude and Behaviour Towards use of Insecticide Treated Mosquito Nets among Pregnant women and Children in Isingiro district, South-western Uganda. PTL: Taremwa Ivan Mugisha Status: ✓ Project completed ✓ Report to local health authority and HCU ✓ Article: BMC Public Health 2017; 17:794 	Mbarara, Uganda	We shall conduct a cross sectional study involving households with pregnant women and children under five from Isingiro district. We shall have free listing interviews consecutively to such households until such a time those common themes have been identified; the interviews will be audio-recorded and transcribed verbatim. To supplement on household interviews, Focus Group Discussions (FGDs) and Key Informant Interviews will be added. Key Informant Interviews will involves a health worker of selected health centres, a local council chairperson, an opinion leader such as religious leader, local council health secretary, drug shop attendant, and the District Health Educator. Focus Group Discussions will involve pregnant women and mothers with children less than 5 years, another for VHTs, and an FGD for men.
Effect of phone call on maternal and foetal outcomes prior and after maternal referrals from Isingiro district: A pilot study PTL: Hamson Kanyesigye Status: ✓ Project completed ✓ Report to Healthy Child Uganda ✓ Published Can J Public Health 2019; 110: 520-522 ✓ Follow up project underway	Mbarara, Uganda	Maternal and Neonatal mortality rates remain high in Uganda despite the different interventions with estimates of 438/100000 and 25/1000 live births respectively. The three delay model in the referral system contributes significantly and most of the mothers with poor maternal and fetal outcomes are referrals especially from Isingiro district. Patients are routinely referred by the lower health units without informing Mbarara regional referral hospital and this delays timely interventions due to lack of preparedness leading to the poor maternal and fetal outcomes. We intend to find out if a phone call prior to maternal referral can improve the Labour outcome. We shall avail prepaid phones to some health units and compare the outcomes between the health unit that would have called before referral and those that will refer without informing Mbarara regional referral hospital.
 Knowledge and current practices of Village Health Team members in early detection and care for young children in Healthy Child Uganda Supported communities in Kakanju Sub county, Bushenyi district PTL: Elizabeth Kemigisha Status: ✓ Project completed ✓ Published: Can J Public Health 2016; 109: e486-7 ✓ Presented to Healthy Child Uganda and local health authority 	Mbarara, Uganda	South Western Uganda has high malnutrition rates with over 36% and 3% of children with stunting and severe wasting respectively (UDHS 2011). Locally, Kakanju Sub County in Bushenyi District is significantly affected with 13% of young children with stunted growth. Early recognition of signs of malnutrition in children improves outcomes and severity at presentation. WHO proposes use of Mid Upper Circumference tapes or oedema by community health workers or volunteers to recognise malnutrition (WHO, 2007). Despite the training the VHTs have received, children present late to hospital with advanced signs of malnutrition. The main objective of the study is to determine the current practice of the VHTs in early detection and care for children with acute malnutrition in Kakanju Sub County.

Ponseti clubfoot management:	Nairobi,	Clubfoot is one of the most common congenital deformities, with
experience with the Steenbeek	Kenya	an incidence of 1 in 1,000 live births worldwide. In Kenya, about
Foot Abduction Brace.		1,200 babies are born with clubfoot every year. Left untreated,
		clubfoot leads to painful, disabling deformity, and social
PLT: Paul Mang'oli		stigmatization. Ponseti method of clubfoot management with
		compliance with bracing is the key to a successful outcome.
Status:		However, child friendly braces are expensive and out of reach for
 ✓ Project completed ✓ Published: Paediatrics & 		most families of affected children in Kenya, and in other
		developing countries. The Steenbeek Foot Abduction Brace
Child Health 2014;19:513-5.		(SFAB) is made locally in Kenya with a cost of less than \$10 US.
✓ Letter to editor reply:		This cross sectional study of acceptability, tolerability,
Peadiatrics & Child Health		compliance, complications and outcomes of children using the
2015;20:148		SFAB for \geq 6 months found that this affordable appliance had high
✓ Presented to local health		efficacy and low complications.
authority and Kijaibe Hospital		
Practices of mothers managing	Mbarara,	The applicants propose to carry out an exploratory descriptive
colic among infants in	Uganda	study to determine how mothers manage colic among their
Nyarubungo Village, Uganda		infants in a village setting in Nyarubungo parish in south west
		Uganda. Colic is a very common phenomenon but little is known
PTL: Peter Nuwagira		about management in this rural setting. Mothers will be
		recruited through purposive sampling via referral form local VHTs
		and will be invited to answer an 8 item questionnaire that
Status:		explores signs of colic, frequency of crying , age of onset, how
✓ Project underway		was managed by the mother at onset and over time and form
		whom help was sought.
		The examination of the practices of mothers in the management
		of colic in Uganda will contribute to the understanding of the
		impact of these practices on the overall health of infants under
		one year in Uganda.
Tuberculosis Drug Resistance	Addis	The study aim was to determine risk factors for multi drug
and Risk Factors among	Ababa,	resistant tuberculosis (MDR-TB) in Oromia Region, Ethiopia. Of
Presumptive Cases in Oromia	Ethiopia	439 presumptive MDR-TB cases, 265 had confirmed MTB with
Region, Ethiopia		33% (88) MDR-TB. Study patients were relatively young, 65% 18
		to 39 years of age. On multi-variant analysis, occupation (being a
PTL: Girma Mulisa		farmer), known tuberculosis contact history, chronic antacid use
		for treatment of gastritis during anti-tuberculosis treatment, HIV
Status:		infection, previous known tuberculosis history and outcomes
 ✓ Received external funding 		were predictors of MDR-TB. MDR- TB was not rare in Oromia
 ✓ Project completed 		Region. Local MDR-TB detection capacity and local epidemiology
 Project completed Published: Int J Infect Dis. 		studies are key for detection and guiding use of sparse resources
2015;39:57-61		to optimize MDR-TB control. If TB is suspected, the presence of
✓ Presented to local health		
		any of the above factors should alert Oromia region clinicians and
authority Oromia Region		public health to be wary of MDR-TB.

Comments from MR participant 2014:

"Two weeks ago I would not have believed how far I could have come. This workshop will help perfect my career as a nurse."



Traditional rituals and customs	Mbarara,	Uganda has significantly improved its under-five mortality rate;
for pregnant women in selected	Uganda	however, maternal mortality is still a problem. Several Ankole
villages in southwest Uganda		maternal traditional pregnancy/ birth customs run contrary to
PTL: Florence Beinempaka		World Health Organization recommended practices such as use of vaginal herbs, home delivery even of adolescents without a skilled birth attendant, and delayed hospital referral when complications
Status:		arise. Low trust in health care workers and delay in hospital/health
✓ Project completed		facility referral may be due to the observed association with
✓ Published Journal of Obs and		referral and maternal/ neonatal deaths. Health care practitioners
Gyne of Canada 2015;		need a deep understanding of these rituals in order to modify
37(10):899–900.		them for improved maternal care.
✓ Presented to School of		
Nursing MUST		
The role of community health	Mbarara,	Community health nursing is aimed at promoting and preserving
nursing in identifying the health	Uganda	the health of populations in the community. Regrettably, despite
needs of women and children in		much government efforts, Uganda still has high maternal
Katete cell- Mbarara		(430/100,000 live births) and infant (76 deaths per 1000 live
municipality - Uganda		births) mortality rates. The community has persisted in high rate
		use of the informal health sector e.g. traditional birth attendants,
PTL: Beebwa Esther		traditional herbalists and self-medication with over the counter
		drugs. The low use of the formal health care system and
Status:		persistence in use of the informal system has contributed to the
✓ Project complete		ongoing poor maternal child health outcomes. To better
✓ Presented at two conferences		understand this issue, this project seeks to determine, through
at MUST		qualitative methods, the health needs of women and children
✓ Published International		residing in a suburb of Mbarara, Uganda, especially this group's
Journal of Africa Nursing		lack of attention to health promotion prevention issues.
Sciences 2021; Vol 15.		

 Prevalence of Ethanol Use Among Pregnant Women in Southwestern Uganda PTL: Lindsay English* Status: ✓ Project completed ✓ Published; Journal of Obstetricians and Gynecologists of Canada 	Mbarara, Uganda	The prevalence of ethanol use in many Sub-Saharan African countries is high and reported to be increasing among women. The objective of this study was to determine the prevalence and predictors of ethanol use among women delivering at a regional hospital in Southwestern Uganda. Among 606 woman invited to participate, 505 were enrolled. The prevalence of maternal alcohol use during the current pregnancy was 16%. Prior use and the awareness of few alcohol-related harms were the strongest predictors of use during pregnancy. A minority of meconium samples (2%) revealed significant fetal alcohol exposure. Education as a protective factor, along with perceived risk as a risk
2015;37(10):901–902. *Project carried under auspices UBC, MR help with publication		factor, suggests that educational interventions can assist in efforts to decrease alcohol use during pregnancy in Southwestern Uganda
 Determining the prevalence of polyparasitism and association with anaemia in febrile underfive children at a health facility in Chikwawa, Malawi. PTL: Jomo Hector Chilenga Banda Status: ✓ Project completed ✓ Report submitted to MicroResearch ✓ Article being prepared for publication 	Blantyre, Malawi	Neglected tropical disease (NTD) affect the poorest people in sub Saharan including Malawi where soil transmitted helminths, schistosomiasis and malaria are endemic in mainly the lakeshore and lower Shire areas. Co-infection with all these parasites increases the risk of anemia and its complications. A lot of studies and interventions target school children and adults. Pre-school aged school children (PSAC) have been a neglected population. Screening for these conditions is not usually done in most health facilities in Malawi. This study will investigate febrile children under 5 years old with suspected malaria for urinary schistosomiasis, hookworm infection, Ascaris spp infection and malaria. The study will be done at Chikhwawa District Hospital in Malawi. Although a rapid malaria test is part of routine care, stool and urine samples will be taken which are not.
 The contribution to mothers' health by village health team promotion practices: A case study of Kyabugimbi subcounty Bushenyi District. PTL: Teddy Kyomuhangi Status: ✓ Project completed ✓ Published: Can J Public Health 2015; 106: e 565 	Mbarara, Uganda	Maternal mortality in sub-Saharan Africa and South Asia accounts for 86% of the maternal mortality rate in the world. In Uganda, a community health worker strategy, Village Health Teams (VHTs), was introduced in 2001 to help address maternal/ child mortality challenges. VHTs are an equivalent of Health Centre I – responsible for the health of community members at the household level. VHTs serve as a community's initial point of contact for health and social services, as well as helping to build social capital and understanding of basic health services and lifestyle choices. As of 2014, over 170,000 VHTs have been trained and deployed across Uganda. The purpose of this study was to explore the contribution of VHTs' health promotion practices to maternal health in south west Uganda.



MicroResearch Workshop, St. Francis Hospital, Nsambya, Uganda 2015

Comments from MR participants 2015:

"I will recommend this initiative to include more institutions specially those institutions which just started and have no experiences on research, no mentors."

Assessment of the outcomes of	Addis	The aim of this research is to identify the contribution of medical
perinatal asphyxia and	Ababa,	indicated preterm birth to neonatal outcomes and assessing facto
determinant factors among	Ethiopia	determine immediate preterm outcomes through comparir
asphyxiated neonates within the		magnitude of spontaneous and medically indicated preterm birt
1st 28 days of life at Yekati-12		comparing immediate outcomes of spontaneous and medical
Hospital Medical College, Addis		indicated preterm birth and recommend possible intervention wa
Ababa, Ethiopia, 2016.		to reduce high neonatal death in tertiary Hospitals of Addis Abab
		Comparative cross sectional study design will be used to identi
PTL: Yimer Seid		contribution medically indicated preterm birth to the immedia
		neonatal out comes, identify magnitude of spontaneous ar
Status:		medically indicated preterm birth and assess associated facto
✓ Transferred and ongoing		determine immediate outcomes of preterm birth.
follow up by Ethio Canada		
Men's Knowledge and	Addis	Male involvement in obstetrics care is an important strategy
involvement on Obstetric Danger	Ababa,	reducing preventable maternal morbidity and mortality especial
Signs, Birth Preparedness and	Ethiopia	in developing countries where male as head of the household is the
Complication Readiness in		one who makes decision on financial, health and other fami
Burayu, Oromia, Ethiopia, 2016.		issues. Different studies showed that male involvement
		maternal health is key to ensuring considerable reduction
PTL: Nebiyou Wendwessen		maternal mortality. This study aims at assessing men's knowledge
		on obstetric danger signs and their involvement in Bir
Status:		Preparedness and Complication Readiness (BP/CR) in Burayu ci
✓ Transferred and ongoing		administration in Ethiopia.
follow up by Ethio Canada		

Addis	In Ethiopia the prevalence of neonatal hypothermia is around
Ababa,	53%, which is a huge number contributing for the high neonatal
Ethiopia	morbidity and mortality rates. Skin to skin contact is a simple and
	cost effective method for improving post-delivery care especially
	for prevention of hypothermia. This study will assess the actual
	practice of skin to skin contact among birth attending health
	workers in Addis Ababa heath facilities and it will help to identify
	if there is a knowledge gap in the area. This study will assess
	practice and associated factors for Skin to Skin Contact
	immediately after birth among health professionals in public
	health delivery facilities in Addis Ababa, Ethiopia.
	Ababa,



Bob Bortolussi and Linda Dodds at "Giraffe Crossing"; Stephanie Onguka, MR Faculty at Kabarak University, with her family

		1
Factors associated with singleton	Addis	Low birth weight (LBW) is considered a major factor affecting
neonatal low birth weight at St.	Ababa,	neonatal morbidity and mortality. Half of all perinatal and one
Paul's hospital millennium	Ethiopia	third of all infant deaths are directly or indirectly related to LBW.
medical college		It leads to inhibited growth, cognitive development and also
		associated with chronic diseases later in life. LBW is a sensitive
PTL: Mehret Yalew		indicator of the socioeconomic conditions and indirectly
		measures the health of the mother and the child. This study will
Status:		assess factors associated with neonatal low birth weight for
✓ Transferred and ongoing		babies being born at St Paul's Hospital Millennium Medical
follow up by Ethio Canada		College in Addis Ababa over a one year prospective study.
A comparative study on	Addis	In Ethiopia over 320,000 premature babies are born every year
spontaneous and medically	Ababa,	and 24,400 children under five die due to direct preterm
indicated preterm birth and	Ethiopia	complications. The aim of this research is to identify the
factors associated with preterm		contribution of medically indicated preterm birth to neonatal
birth outcomes in Addis Ababa		outcomes and assessing factors that determine immediate
		preterm outcomes through comparing magnitude of
PTL: Samuel Muluye Welelaw		spontaneous and medically indicated preterm birth, comparing
		immediate outcomes of spontaneous and medically indicated
Status:		preterm birth and recommend possible intervention ways to
 Transferred and ongoing 		reduce high neonatal death in tertiary Hospitals of Addis Ababa.
follow up by Ethio Canada		

Cervical cancer screening uptake:	Mbarara,	Cervical Cancer screening is poorly implemented in rural
a case study of Sheema district,	Uganda	communities of sub-Saharan Africa. This continues to threaten
rural south western Uganda		lives of most women. On the other hand, cervical cancer is one
PTL: David Ayebare Santson		of commonest cancers among women in Uganda. In Sheema district, cervical cancer screening is done occasionally at health centres and very few women attend. The objective of this study
 Status: ✓ Project complete ✓ Presented at MUST Scientific Conference, Nov 2019 		is to investigate the factors influencing cervical cancer screening programmes in Sheema district South- Western Uganda.

✓ Manuscript under review



Left: Workshop participants and teachers, Centre Hospitalier Kigali, Kigali Rwanda, 2016; Right: participants, teachers and judges, Gertrude's Children's Hospital, Nairobi Kenya, 2016

Comment from MR participant 2016:

"I will now foster continued questioning within our institutions and community to develop pertinent research questions and find the answers."

Cascade from enrollment into	Makerere,	Although 97% of HIV+ mothers were started on appropriate ARV,
care to viral suppression,	Uganada	only 56% are retained after 6 months. The applicants will describe
women enrolled into the option		factors associated with retention and lost to follow-up for
B+ in a large HIV program in		mothers enrolled in Option B+ among HIV+ mothers in a rural
Uganda: Describing factor		community of Uganda. This project will use quantitative methods
associated with lost-to- follow		to describe demographic features and viral suppression and
up and virologic outcomes and		determine the rates of retention and loss to follow-up of these
understanding barriers to		mothers at 6, 12, and 18 months postnatally. Qualitative methods
retention		will also be used to identify factors associated with loss to follow-
		up and virological outcomes of these mothers. Understanding
PTL: Paul Gonza		loss to follow-up is a critical issue for success of Option B+ and the
		90-90-90 goals. Imperfect adherence to ARV therapy will drive
Status:		the development of resistance. This is already an issue in many
✓ Project complete		clinics in Uganda with large numbers of patients failing therapy
 Preliminary results shared 		requiring second line and third line therapy that is much more
with Mildmay Hospital team		expensive.
✓ Working on manuscript		

Factors Affecting Nutritional	MUST,	Despite Western Uganda having excellent growing conditions,
Status Among Children Aged 1-5	Uganda	and often being referred to as "the food basket" of the country, it
Years In Buhweju District, South		has persistently registered the highest levels of childhood
Western Uganda		malnutrition. There is need to build a holistic picture of the
		factors responsible for these high levels of childhood malnutrition
PTL: Abaasa Catherine		in order to guide the effective policies and interventions. This
		research project in Buhweju District will to interview caregivers
Status:		of children 1 to 5 years of age using a structured questionnaire to
✓ Project complete		examine factors that may be contributing to malnutrition. Key
✓ Presented at MUST Annual		informant interviews will also be conducted with all health
Scientific Conference, Nov		workers directly involved in child care programs.
2019		
✓ Manuscript submitted to		
BMC Public Health		
✓ KT Grant proposal under		
review with MR		
Impact of Routine Screening for	Nsambya,	Hepatitis B is a major disease of serious global public health
Hepatitis B Viral Infection in	Uganda	proportion which is preventable with safe and effective vaccine.
Pregnancy in a resource Limited		Perinatal transmission contributes to the acute disease burden
setting.		and may progress to chronic hepatitis B infection. This is an
		observational cohort study to determine the knowledge of
PTL: Anthony Makhoba		pregnant women in this setting with regards to hepatitis B. This
		research is aimed at screening pregnant mothers attending
Status:		Antenatal Care at St. Francis Hospital Nsambya for Hepatitis B
✓ Project complete		viral infection. The authors plan to identify and refer (Internal)
✓ Manuscript under review		patients who are positive for evaluation for treatment and follow
		up. They will also follow outcomes of the delivery, Hepatitis B
		specific interventions given to the New-born at birth and
		subsequently.



Workshop Participants, Tanzanian Training Centre for International Health, Ifakara, Tanzania 2016

Comments from MR Participants 2016:

"I have never been taught in this way before- have a lecture with examples and discussion followed by use what I just learned in group work. This really worked for me."

"We can make an impact on the health of our communities with MicroResearch. This was so relevant and useful."

"You don't have to be Superman to do research – research that is important to our communities."

		2017
 Challenges to Complimentary Feeding among Children below 2 Years in Gweri Sub-county Soroti District in Uganda PTL: Tumuhimbise Manasseh and Beatrice Akello Status: ✓ Project complete ✓ Manuscript being written 	MUST Uganda	Soroti district is one of the many parts of Uganda that suffer from acute food shortage. This impacts on the availability of foods for complimentary feeding of infants i.e. the period between 6 months and 2 years when foods in addition to breast feeding are given. Dietary intake in addition to breast milk has the largest impact on growth and development children in this age period- a critical time for brain development. This study seeks to understand how mothers cope with complimentary feeding needs for their young children in times of food shortages.
Assessing sexual practices and contraceptive use among adolescents 15-19 years in a refugee settlement in Uganda PTL: Elizabeth Kemigisha Status: ✓ Project completed ✓ Published Reproductive Health 2019;16(35)	MUST Uganda	Access to sexual and reproductive health (SRH) services is challenging for young African women and girls affected by disasters and conflicts who are living in refugee camps or dispersed across host countries. In addition, adolescent girls are an overlooked group within conflict-affected populations and their SRH needs are often neglected. The overall objective of this study is to identify SRH needs of adolescent girls and their access to existing SRH services in selected refugee communities in Uganda via quantitative survey. This questionnaire will be administered to 250 young refugee girls, age 15-19 years.
 Perceived Factors Influencing Adherence to Standard Operating Procedures among Laboratory Personnel in Bomet County, Kenya PTL: Sifora Fanta Chaleabo Status: ✓ Project complete ✓ Project presented at MR Forum 2021 	KABU, Kenya	Multiple studies have demonstrated high rates of laboratory data error in East African laboratories. Adherence to Standard Operating Procedures (SOPs) has been shown to be crucial to ensuring laboratory data quality. However, recent studies have demonstrated decreased SOP adherence in Kenyan Health facilities correlating with poor laboratory data quality. This study seeks to determine perceived factors among laboratory personnel that influence adherence to SOPs in the public health facilities in Bomet County, Kenya.
 Exploring the causes of delayed discharge process at the Nairobi Hospital, Kenya PTL: Nebert Kiguhe Mchidi Status: ✓ Conducting data analysis ✓ Working on manuscript 	Nairobi Hospital, Kenya	Delayed discharge can be a costly problem for patients and for the hospital. We would like to find out what the discharge process at the Nairobi Hospital is like, identify bottlenecks and opportunities for more efficient discharge process.

Health related quality of life in	Ifakara,	For the last 8 years, in Tanzania there is an emergence of
children and youth with Type 1	Tanzania	adolescents and children with Type I DM due to improved
diabetes living in Southern East		diagnosis. This was followed by the training done to 6
and Highlands Tanzania		endocrinologists and then several local short training to primary
		health providers in regions of Tanzania. The latter is supported
PTL: Janeth Bulemela		by a large program change Diabetes in Children (CDiC) and by
		International Diabetes Federation (IDF) where there are 16 clinics
Status:		(5 hubs and 11 spokes) for organization. Nearly 756 children are
✓ Project complete		registered and on follow up. In our proposal we are questioning
✓ Manuscript and final report in		if the children and adolescents after survival get a good health
preparation		related quality of life or if it was better to die.



MicroResearch Workshop participants, with Dr. Geoffrey Wechulli teaching KABU, 2017; and MicroResearch Workshop team at Chitwan Medical College, Nepal 2017

Comments from MR participants 2017:

"MicroResearch was eye opening and I am positive that it will change my life."

"MicroResearch can change attitudes and perceptions."

"With colleagues at MicroResearch, I hope we can identify problems convert this into proposals, apply for funding and carry out research and implement findings."

"I will continue involving others to come up with research proposals whose findings benefit local communities in their innovations and simplicity."

"My knowledge after this workshop will be extremely helpful in my future scientific research in constructing the research and knowledge translation as well."

"I'll apply these skills in my research project and transfer it to my students and colleagues."

2018

Application for knowledge	MUST,	The burden of malaria in Uganda remains unacceptably high,
translation (KT) grant for a	Mbarara,	especially among children and pregnant women. To prevent
MicroResearch project:	Uganda	malaria related complications, household possession and use of
knowledge, attitude and		Insecticide Treated mosquito Nets (ITNs) has become a common
behaviour towards the use		practice in the country. In our MR study, we explored knowledge,
of insecticide treated		attitude, and behavior towards the use of ITNs as a nightly
mosquito nets among		malaria prevention strategy among pregnant women and
pregnant women and		children under five years of age in Isingiro district, Southwestern
children in rural		Uganda. We found a possession-utilization gap, and this requires
southwestern Uganda		engagement of all stakeholders in the malaria prevention
		campaigns using ITNs through: a) government's concerted effort
PTL: Taremwa Ivan		to ensure universal access of right fit ITNs, b) end-user directed
Mugisha		health education to emphasize positive attributes of ITN use, c)
		telling the ITN success stories to improve on the usage. This KT
Status:		plan will work on this latter aspect.
✓ KT project complete		
✓ Published: Health		
Psychology and		
Behavioral Medicine.		
2020 Jan 1;8(1):383-97.		



MicroResearch Workshop Class CHUK with teachers, coaches and judges. Kigali, Rwanda 2018.

Comments from MR participants 2018:

"MicroResearch ignited the dead researcher within me, and I am sure amongst all of us. This is the first time I could think of problems outside my discipline. It feels so great."

"Very encouraging workshop. I did not have interest in research but since then got to know it is something useable, I am very curious."

"The course is excellent and highly needed in all resource-constrained settings."

"Change the name please! This is a big course not a <u>micro</u> course."

 Exploring knowledge, experiences and challenges in handling menstruation among adolescents with disabilities, a qualitative study. PTL: Natuhwera Calorine Status: ✓ Project complete ✓ Working on manuscript and final report ✓ KT project submitted to MR 	MUST Mbarara, Uganda	According to the Uganda census 2014, the prevalence for disabilities was 13% for any disability and 5.6% for any two domains of disabilities. Menstrual health hygiene and management for persons with disabilities is not frequently reported, yet these pose unique challenges to this sub population. This project focuses on menstrual health of persons with disabilities. The main objective of this study is to explore menstruation challenges among the highly vulnerable yet neglected groups in research such as adolescent girls those living with physical disabilities. As part of this project, we shall provide information on menstrual hygiene management and also counselling to enable girls with disabilities to realize their potential.
 Prevalance and risk factors of self-medication among breast feeding mothers in Mbarara municipality PTL: Katusiime Beatrice Status: ✓ Data collection and analysis completed ✓ Working on final report and manuscript 	MUST Mbarara, Uganda	Self-medication can be detrimental to the health of the mother and child. This has been identified as a common public health problem worldwide. In Uganda minor illnesses like fevers, abdominal upsets, cough, pains, common cold, etc. may stimulate breast feeding mothers to practice self-medication. The availability of the small drug shops in Mbarara makes access to over the counter drugs easy and without prescriptions. This may put children at risk. This study seeks to understand mother's experiences with self-medication, reasons why they self- medicate and if they have experienced any problems with self- medication.
Psychosocial Challenges among Caregivers of Children with disabilities in South Western Uganda PTL: Mutatina Robens Status: ✓ Project underway	MUST Mbarara, Uganda	Globally about 15 % of the world's population have significant disabilities. Caregivers for children with disabilities (CwDs) play a vital role in providing support for them through their lifetime. In Uganda the Person with Disabilities Act of 2006, provides a comprehensive legal protection for persons with disabilities by eliminating all discrimination and supporting equalization of opportunities. This act aims to provide relief to those living with disabilities but fails to consider the needs of those providing care such as CwDs. The purpose of this study is to determine the psychosocial challenges faced by caregivers of CWDs through interviews with CwDs recruited from the Organised Useful Rehabilitation Services (OURS); the only centre for disabilities in South West Uganda.

Perceptions of women with	СНИК	The World Health Organization (WHO) encourages countries to
NCDs on birth control and	Kigali,	reduce maternal and neonatal deaths. A lot of efforts have been
pre-pregnancy counselling	Rwanda	made by the ministry of health of Rwanda to reduce maternal
in Rwanda.		deaths. Chronic diseases exert a highly negative impact on
		maternal and neonatal outcomes. The aim of our study is to
PTL: Juvenal Nambaje		understand the perceptions of women with chronic diseases on
		birth control and pre-conception counselling in Rwanda. Our
Status:		team made of internal medicine doctors, internal medicine
✓ Project complete		nurses, a laboratory scientist and a midwife, hopes that this
✓ Manuscript and final		study will help to understand the barriers that those women are
report under preparation		facing in terms of getting family planning methods and advices
		before getting pregnant. Results from this study will provide an
		evidence base to influence policies in order to decrease the
		burden imposed by chronic diseases in child-bearing age women
		in the region.
Why do Rwandan women	СНИК	Rwanda, a LMIC, has a population of 11 million with 2.72 million
not go for cervical cancer	Kigali,	women aged 15 years and older who are at risk of developing
screening?	Rwanda	cervical cancer. Rwanda is the first African country to initiate a
		nation-wide program to eradicate cervical cancer through
PTL: Jean Pierre Gafaranga		vaccination against HPV. Rwanda has introduced low-cost
_		methods for cervical cancer screening including visual inspection
Status:		of cervix with acetic acid (VIA) and HPV-DNA test for women
✓ Project complete		aged 35 or above with a repeat screening at 7 years for those
✓ Manuscript under		with a negative results. Unfortunately, the screening rate had
review		been low and the possible reasons are not known. Therefore, the
✓ Presented project at MR		study aims to find out the barriers for Rwandan women to use
Forum 2021		the cervical cancer screening program.



Participants at Chitwan Medical College, Nepal, 2018; MR team at Nairobi Hospital, 2018

How do Rwandans attending ANC want to	CHUK Kigali,	Worldwide, the use of family planning (FP) is estimated at 57.4% and 28% in Africa. Current data show that family planning alone
learn about family planning?	Rwanda	has a direct impact on decreasing the global maternal mortality by 30% and neonatal mortality by 10% each year. Whether the
PTL: Timothee Shahidi Twahirwa		community would prefer a specific mode of education and conviction towards FP methods, especially in middle and low income countries (MLIC), has not been documented. This study
Status: ✓ Provisional Approval		will explore how do Rwandan women and men attending antenatal care want to learn about family planning.

CT scan request in	CHUK	CT scan is the reference standard for diagnosis of Traumatic
management of paediatric	Kigali,	brain injury. With the increase of CT Scan use with increased
head injury at Kigali	Rwanda	radiation exposure which is becoming a heavy public health
University Teaching		burden. CT Scan use in pediatric is still controversial and with
Hospital Emergency		most pediatric injuries being mild not needing neurosurgical
Department, Rwanda		intervention. Clinical decision rules have been developed to
		reduce radiation exposure to the pediatric population. Three
		clinical decision rules are widely used, PECARN, CATCH, and
PTL: Mbanjumucyo Gabin		CHALICE. Pediatric emergency care applied research network
		(PECARN) is validated and preferred in low resource settings.
Status:		There is no standard protocol of CT scan request at Kigali
 Provisional approval 		University Teaching hospital (CHUK). This study aims at assessing
		if CT scan requests in pediatric head injury at are following
		PECARN rules. To our knowledge no similar study has been done
		in Rwanda and the region.

Comments from MR participants 2018

"Kindly MR founders think of a sister training for purposes of multidisciplinarity and sustainability beyond health."

"Endeavour to engage and create more awareness of this workshop. It is very important as it touches lives by research."

"I highly appreciate the skills I have learned and now I can apply to my career and promote research studies and teach others."



MR graduates at Kabarak University, 2019; MR participants at Kabarak University, 2019

Factors that influence false	MUST	False tooth extraction, the removal of deciduous primary canine
tooth extraction among	Mbarara,	tooth buds among infants below 2 years of age, has been
children below two years in	Uganda	practiced amongst communities in East Africa, Ethiopia and
Isingiro, southwestern		Sudan for over six decades. This procedure, done in the
Uganda.		community by traditional healers, involves unsterilized tools,
		such as bicycle spokes, needles, knives or finger nails etc., putting
PTL: Elizabeth Najjingo		the child at risk of acquiring blood borne infections and the
		bleeding may lead to death from shock and anemia as well as
Status		sepsis and tetanus infections. This study will determine the
✓ Project underway		factors that influence false tooth extraction in southwestern
		Uganda

For the second state of weight	NALICT	Manutal baskilling and affect at any and Tag to the second
Factors associated with	MUST	Mental health problems can affect at any age. Ten to twenty
non-adherence to	Mbarara,	percent of youth in the world are affected by mental health
medications among	Uganda	problems, with the majority in low resourced countries, like
Adolescents with common		Uganda. Failure to adhere to prescribed medicines can result in
mental disorders at		delayed response, reoccurrence of symptoms, and increased
Mbarara Regional Referral		cost of overall treatment. The questions as proposed in this
Hospital		project: [1] What is the prevalence of non-adherence to medications among adolescents with common mental disorders
PTL: Gideon Robert Odendi		at Mbarara Regional Referral Hospital? [2] What factors are
		associated with non-adherence?
Status		associated with non-adherence:
✓ Project underway		
Prevalence of obesity and	MUST	Obesity is an increasing recognized health problem that now
associated factors among	Mbarara,	ranks as the fifth leading global risk for mortality. The
primary school going	Uganda	International Obesity Task Force estimates that about 155
children in Mbarara		million school-going children globally, are either overweight or
Municipality, Southwestern		obese. Healthy weights and lifestyles have a significant impact
Uganda		on current and future health, including both metabolic and
		mental health. There is need to provide data on the prevalence
PTL: Timothy Nduhukire		of obesity so that policy makers are aware of the burden of
		obesity and its associated factors. Not much data is available in
Status		Uganda. This study seeks to obtain local obesity data among
✓ Project underway		primary school going children in Mbarara Municipality, South
		Western Uganda and also examine factors that are associated
		with obesity in this setting.



MR workshop at Mildmay Uganda, 2019

Comments from MR participants 2019

"Africa is a continent where research is needed. I hope to see this workshop in more African countries. The demand is high."

"My mind is opened up and I can [...] confidently carry out research. Thanks very much."

Knowledge, Attitude and Chitwan Cervical cancer ranks as the leading cancer of females in Nepal. Medical Practice Regarding Cervical Death from the cervical cancer can be minimized through multi-Cancer and Its Screening College, disciplinary comprehensive interventions across the life course among Women in Madi, Nepal including community education, social mobilization, vaccination, Chitwan screening and treatment. Most cervical cancer deaths in Nepal could be avoided if known effective interventions were available PTL: Kalpana Sharma to all women and implemented, including immunizing adolescent girls against human papilloma virus (HPV) and cervical screening and treatment of pre-cancerous lesions. Even Status though these care modalities are available, Nepalese women ✓ Project complete have low knowledge and up take of screening. Therefore, this ✓ Preparing manuscript study aims to determine the knowledge, attitude and practice and final report regarding cervical cancer and its screening among women of this area of Nepal.



Harriet Chemusto, Noni Macdonald, Mary Odiit, and Bob Bortolussi at Mildmay Uganda Research Centre, 2019; Noni MacDonald and Janice Graham at the MR "Headquarters", Mildmay Uganda Research Centre, 2019

Factors affecting the	MUST	This study aims to better understand factors affecting the
uptake of malaria	Mbarara,	malaria prevention strategies among pregnant women in Birere
prevention strategies	Uganda	sub-county, Isingiro district. In addition, the project will study
among pregnant women		health care workers at the antenatal clinic of Kasana Health
		Centre III to gain in-depth understanding of the topic, with
PTL: Taremwa Ivan		emphasis on the questionnaire responses with pregnant women.
Mugisha		Data will be collected through questionnaires and interviews
		that focus on the knowledge and behaviors of pregnant women
Status:		and the perceptions of health care workers treating these
✓ Project complete		women, with the aim to explore if malaria is emphasized as a
✓ Manuscript in		major concern for pregnant women during antenatal care.
preparation		

phone technology to improve maternal-fetal outcomes in South Western UgandaUgandaHospital (MRRH) receives many referred mothers in labour, with a significant number end up with bad maternal and fetal outcomes. These outcomes are attributed to delays while referring the mother from lower health units to MRRH and also because the health workers at MRRH are not alerted about the condition of the referred mothers so that they can prepare adequately. Mobile phone technology may reduce delays in management of referrals thereby improving maternal-fetal outcomes. This project aims to establish the effect of a phone based intervention on maternal-fetal outcomes among lintrapartum referrals.Uptake of HIV Testing Services through Assisted Partner Notification (APN) among MenMildmay, Kampala, UgandaThe prevalence of HIV among adults aged 15 to 64 in Uganda is 6.2%, 7.6% among females and 4.7% among males. Despite the improvement in HIV testing among men from 25% in 2005 to 52% in 2016, more efforts through an assisted partner notification (APN) strategy are needed to improve the uptake of HIV testing to expected target of more than 95% among the men. The main objective of this project will be to assess the uptake of HIV testing to expected target of more than 95% among the men. The main objective of this project will be to assesse the uptake of HIV testing to expected target of more than 95% among the men. The main objective of this project will be to assesse the uptake of HIV testing to expected target of more than 95% among the men. The main objective of this project will be to assesse the uptake of HIV testing treated for ty roject approvedY Project approved Y Project approved Y Project approved Y Project approved Y Project approved Y Project approvedMildmay, Kampala, Ug			
Services through Assisted Partner Notification (APN) among MenKampala, Uganda6.2%, 7.6% among females and 4.7% among males Despite the improvement in HIV testing among men from 25% in 2005 to 52% in 2016, more efforts through an assisted partner notification (APN) strategy are needed to improve the uptake of HIV testing to expected target of more than 95% among the men. The main objective of this project will be to assess the uptake of HIV testing services among men through APN in Wakiso District ✓ Provisional approvalClients' knowledge and compliance towards hypertension management among adults living with HIV attending Entebbe and Mildmay Uganda hospital PTL: Carolyne NamayanjaMildmay, Kampala, UgandaHypertension (HTN), a condition characterized by raised blood pressure, is one of the most common risk factors for cardiovascular disease affecting the health and well-being of people living with HIV. This study aims to ascertain clients' knowledge, perceptions and assess compliance towards hypertension management among adults living with HIV. The researchers will conduct focus group interviews with three differing groups: adults living with HIV receiving treatment for HTN, adults living with HIV who are not receiving HTN treatment; and adults who are not HIV positive but are being treated for HTN.✓ Project approved ✓ Seeking ethics approvalMildmay, Kampala, UgandaThis study will investigate the barriers and facilitators to access to Hepatitis B services in refugee populations access them and yet there is limited data on what factors could be contributing to this. The researchers plan to investigate these gaps so that interventions can be generated to improve service delivery. Quantitative data will be abstracted from existing medical interventions can be g	Assessment of intrapartum referrals and use of mobile phone technology to improve maternal-fetal outcomes in South Western Uganda PTL: Kanyesigye Hamson Status: ✓ Project underway	Mbarara,	(PMR) in Uganda are still very high. Mbarara Regional Referral Hospital (MRRH) receives many referred mothers in labour, with a significant number end up with bad maternal and fetal outcomes. These outcomes are attributed to delays while referring the mother from lower health units to MRRH and also because the health workers at MRRH are not alerted about the condition of the referred mothers so that they can prepare adequately. Mobile phone technology may reduce delays in management of referrals thereby improving maternal-fetal outcomes. This project aims to establish the effect of a phone based intervention on maternal-fetal outcomes among
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PTL: Simons EzajoboHIV testing to expected target of more than 95% among the men. The main objective of this project will be to assess the uptake of HIV Testing services among men through APN in Wakiso District Y rovisional approvalClients' knowledge and compliance towards hypertension management among adults living with HIV attending Entebbe and Mildmay Uganda hospitalMildmay, Kampala, UgandaHypertension (HTN), a condition characterized by raised blood cardiovascular disease affecting the health and well-being of people living with HIV. This study aims to ascertain clients' knowledge, perceptions and assess compliance towards hypertension management among adults living with HIV. The researchers will conduct focus group interviews with three differing groups: adults living with HIV receiving treatment for HTN; adults living with HIV who are not receiving HTN treatment; and adults who are not HIV positive but are being treated for HTN.Status:Mildmay, Kampala, UgandaThis study will investigate the barriers and facilitators to access to Hepatitis B services among women of reproductive age in Bidibidi refugee settlement in Northern UgandaMildmay, Kampala, UgandaPTL: Emmanuel OmonyMildmay, FTL: Emmanuel OmonyThis study will be abstracted from existing medical recods to identify the burden of Hepatitis B among women of reproductive age. This will be followed by qualitative data	among Men		52% in 2016, more efforts through an assisted partner
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 ✓ Provisional approval Clients' knowledge and compliance towards hypertension management among adults living with HIV attending Entebbe and Mildmay Uganda hospital PTL: Carolyne Namayanja Yeroject approved ✓ Project approved ✓ Seeking ethics approval Barriers and facilitators of access to Hepatitis B services among women of reproductive age in Bidibidi refugee settlement in Northern Uganda Mildmay, TL: Emmanuel Omony Mildmay, Status: Mildmay, Mildmay, Status: Mildmay, Yeroject approved Yeroject approved ✓ Project approved Yeroject approved ✓ Seeking ethics approval Mildmay, Status: 			The main objective of this project will be to assess the uptake of
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	Status:		
	✓ Project approved		
✓ Seeking ethics approval	✓ Seeking ethics approval		



MicroResearch graduates at Kabarak University, May 2019

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Social and Psychological impact of the COVID-19 pandemic in selected communities in Mbarara municipality south western Uganda PTL: Taremwa Ivan Mugisha	MUST Mbarara, Uganda	This study will enroll Coronavirus Disease-2019 (COVID-19) healthcare providers, and community support teams in Mbarara city as the proxy to the understanding of community social and psychological effects in the era of a pandemic, southwestern Uganda. The study will use in-depth and key informant interviews to understand the underlying social and psychological concerns for both healthcare providers and community support teams but which may not easily be captured to inform an appropriate response and recovery mechanism during an infectious disease outbreak.
Status		
✓ Project underway		
Factors influencing low	MUST	Rubirizi, one of the smallest districts in western Uganda has
uptake of DPT3 among	Mbarara,	persistently performed poorly on DPT3 coverage at 78%. Worse
infants aged 16 to 52	Uganda	still in Rubirizi town (the biggest urban centre in the District)
weeks in Rubirizi Town	_	DPT3 coverage is as low as 22% (DHIS2, 2017). Therefore the
PTL: Agatha Nshabohurira Status ✓ Project underway		Research team seeks to understand reasons why the coverage is so low by exploring individual perceptions, community factors, and health service related factors influencing uptake of DPT 3 Immunization, community influencing factors associated with uptake of DPT 3 Immunization amongst infants 16-52 weeks in Rubirizi Town, Rubirizi District.
Anti-Retroviral Therapy	MUST	Adherence to antiretroviral therapy (ART) has been reported to
(ART) adherence among	Mbarara,	be sub-optimal among adolescents with HIV (ALHIV) in boarding
adolesents attending	Uganda	secondary schools due to fear of unintended disclosure and
boarding secondary		associated stigma. Using a phenomenological exploratory cross-
schools in Sheema District,		sectional design employing both quantitative and qualitative
Uganda		data collection methods, this study seeks to determine ART
PTL: Derrick Komwangi		adherence level and explore the lived experiences of ALHIV attending boarding secondary schools to contribute towards improve ART related health outcomes in this vulnerable
Status		population.
✓ Provisional approval		

Voices of young	MUST	The COVID-19 pandemic has resulted in the closure of schools,
adolescents in schools	Mbarara,	public transport and no public gatherings in Uganda. These
regarding the COVID-19	Uganda	efforts have paid off with minimal community transmission of
pandemic and prevention		the virus so far. School age children and adults have been
measures: A qualitative		affected with interruption in learning. This is a concern in a
study in South Western		country such as Uganda where school completion rates are low
Uganda using a mail box		with drop outs at the beginning of adolescence period in primary
technique		school. The Ministry of Education has been proactive in
		substituting the lost school time with media based learning
PTL: Elizabeth Kemigisha		through television, radio and print media. It is not clear as yet
		how adolescents perceive this alternative kind of education,
Status		whether the target population has been reached and is actively
✓ Project underway		participating. This study seeks to explore adolescent knowledge
✓ Presented preliminary		and experiences during the COVID 19 epidemic and lock down
results at UPA		and how these events have affected their learning and learning
conference, Oct 2020		expectations.
✓ Presented project at MR		
Forum 2021		
Experiences of caregivers	MUST	This project focuses on understanding the lived experiences of
of children with cerebral	Mbarara,	caregivers of children with neuro developmental complication in
palsy attending Ruharo	Uganda	this case Cerebral Palsy in South-western Uganda. The study will
Mission Hospital in South		focus on the primary caregivers who have lived with the child for
Western Uganda		at least 6months attending to Ruharo Mission Hospital in
PTL: Justus Asasira		Uganda. There are few studies that have studied this group of
PTL: JUSIUS ASASIFA		caregivers in local context to understand their copying mechanisms at community level and how these could be scaled
Status		up and modified to inspire others involved in care.
✓ Project approved		
 ✓ Froject approved ✓ Seeking ethics approval 		
· Seeking ethics apploval		



MicroResearch workshop at MUST, February 2020

Comment from a MR participant 2020

"A heart felt thanks from me and the guys. We enjoyed every bit of the workshop. These will be life long skills that will aid in our careers. No doubt every time we engage in research activities in the future we will keep you in mind."

Determinants of intimate partner violence disclosure among pregnant women in forcibly displaced settlements during COVID- 19 pandemic in Kasese District PTL: David Ayebare Santson Status ✓ Project underway	MUST Mbarara, Uganda	Intimate partner violence (IPV) during pregnancy is causing high mortality among pregnant women and still births in sub-Saharan Africa (SSA). One reason being that few health facilities offer IPV counselling services worsened by few women disclosing IPV. The situation is worse for pregnant women in rural forcibly displaced settlements, including limited access to information on the benefits of IPV disclosure and thus the effects of IPV might continue to threaten the lives of pregnant women, their pregnancies and newborns. It is against this background that individual interviews and FGDs will be conducted in the households in the settlements in Kasese district. Mothers with neonates, FGDs with women and men and Key Informant Interviews with professional Health workers at Bugoye Health centre will be conducted.
 Healthcare providers and Caregivers' perspectives on factors underlying the persistent malnutrition of Children aged 0-59 months in Buhweju district, southwestern Uganda (KT project) PTL: Catherine Abaasa Status ✓ Provisional approval ✓ Presented project at MB Forum 2021 	MUST Mbarara, Uganda	The objectives of this knowledge translation project is to create awareness on the factors responsible for persistent malnutrition in Buhweju district and engage the communities on how best they can mitigate the identified factors and plan for a way forward towards improvement of nutrition of children in Buhweju district. The effort will help engage into discussion on the perspectives of Healthcare providers and caregivers with policy makers to improve the nutrition of children in Buhweju district and Uganda at large.
MR Forum 2021Evaluation of a short menstrual hygiene training among adolescent girls in Nakivale refugee settlement (Knowledge Translation project)PTL: Elizabeth KemigishaStatus ✓ Project approved ✓ Seeking ethics approval ✓ Presented project at MR Forum 2021	MUST Mbarara, Uganda	Humanitarian crises and migration increase vulnerability of adolescent girls to sexual and reproductive health (SRH) risks with poor outcomes. These include limited knowledge on SRH risks or prevention practices, poor menstrual hygiene management, sexual violence with unintended pregnancies and so much more. We conducted a situation analysis of adolescent SRH knowledge and access to services in humanitarian crises. Our qualitative study findings indicated varied experiences regarding menstruation that included being unprepared for menarche, receiving social support on how to handle menstruation and menstrual hygiene, limited exercise or physical activities, school absences, psychological distress and physical pain. The burden of menstrual hygiene management, limited information about menstruation, limited accessibility to sanitary is still a challenge.

Effectiveness of Problem- Based Learning in enhancing students' understanding of electromagnetic wave concepts in physics among secondary schools in Western Uganda PTL: Stella Kanyesigye Status ✓ Under review	MUST Mbarara, Uganda	According to Uganda National Examination Board (2017), the performance levels in all science subjects continues to be low, with about 55 per cent of the candidates unable to exhibit the minimum required competency to be graded; the worst performed science subject being physics. Students exhibit various misconceptions especially with electromagnetic wave concepts despite their importance in health and technological developments. As a result, students tend to drop science subjects as they go to higher levels contributing to lack of skilled labor among Science, Technology, Engineering and Mathematics (STEM) fields. In response, the Government of Uganda in January 2020 adopted a competence-based curriculum (CBC) to enhance students' skills, knowledge and development of self confidence in problem solving. As a move to improve students' learning outcomes, this study seeks to assess the effectiveness of Problem-Based Learning (PBL) as a CBC pedagogy in enhancing students' knowledge of wave concepts in physics among secondary schools in Western Uganda.
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Comments from MR participants 2020

"The workshop has opened my eyes as an upcoming researcher. More knowledge has been gained greatly and because I am a student, this has been timely."

"Good project for capacity building in primary health care where there is usually a gap in research."



MicroResearch Train the Trainer Virtual workshop with participants from Mangochi, Malawi – December, 2020

Factors associated with early discharge of pre-term babies in Southwestern Uganda: A qualitative study PTL: Stella Kyoyagala Status ✓ Provisional approval	MUST Mbarara, Uganda	Uganda has one of the highest preterm birth rates, ranked thirteenth worldwide. Prematurity is the second leading cause of deaths in children below 5 years in Uganda. To optimise survival of these delicate preterm babies, most are admitted in special units to treat for medical complications and optimize growth. 40% of these babies go home before the discharge recommendations are met, increasing chances for death at home. In Uganda, formalized community care services for preterm babies are completely lacking after these babies are discharged, yet 60% of the newborn deaths occur in the communities. Our study therefore, seeks to understand why some parents/attendants opt for early discharge of their preterm babies and how best they could be supported in caring for them in the hospital to stay longer and at home if early discharge is inevitable.
Exploring the nutrition challenges and their associated health outcomes experienced by communities in Mbarara city, south western Uganda during the COVID-19 Pandemic PTL: Catherine Abaasa Status ✓ Provisional approval	MUST Mbarara, Uganda	This is a phenomenological study on the challenges households in Mbarara city experienced during the COVID-19 lockdown. Anecdotal data in Uganda indicate emergence of food shortages since agricultural and food markets faced disruptions because of labor shortages, in addition to income losses and transport challenges that hindered sale of nutritious, fresh, and affordable foods, forcing families to rely on nutrient-poor alternatives due to imposed lockdown. Most Ugandans are finding it difficult to feed themselves and their dependents since most of them; often called the urban poor, live on a hand to mouth existence which is hinged on being able to work for a day's wage hence the average number of daily meals consumed is limited. This study will explore the nutrition challenges experienced by communities in Mbarara city, south western Uganda and the coping mechanisms they have deployed during this pandemic.
 Knowledge, experiences, challenges faced by adolescents with disabilities in handling menstruation and forms of support by caregivers in Mbarara District, Uganda (KT Project) PTL: Calorine Natuhwera Status ✓ Project approved ✓ Seeking ethics approval ✓ Presented project at MR Forum 2021 	MUST Mbarara, Uganda	In this study, we explored how adolescents with disabilities in Mbarara possess inadequate knowledge on menstruation and face unique challenges in handling menstruation. Out of 86 participants (adolescents), average of 37.2% (n=32) of the respondents had adequate knowledge about menstruation which was seen challenging. The interviews with care takers revealed that these girls face unique challenges in handling menstruation like 1) lack of adequate materials to use, 2) disability related challenges, 3) social cultural attitude attached to their disability like menstrual timing, access to education and limited support from caretakers. We therefore found a need to provide caregivers and adolescents with sexuality education tailored to their needs, provision of necessary hygiene materials and addressing psychosocial and restrictive cultural norms. This KT project will disseminate our findings.

Comments from participants in 2021:

"The workshop was an eye-opened. Facilitators were very humble and always listening to our concerns. Awesome!"

"The training was so wonderful and my research knowledge has greatly improved"

2021

 Exploring knowledge and practices of COVID-19 preventive measures among secondary school teachers in public school within Lilongwe City, Malawi PTL: George Mwenye-Phiri Status: ✓ Provisional Approval ✓ Presented project at MR Forum 2021 	Mangochi, Malawi	Within Malawi's education system, teachers are regarded as great source of information and are at the center of influencing the behaviours of their learners as well as their communities. This research study aims to explore knowledge and practices of COVID-19 preventive measures among secondary school teachers in public schools within Lilongwe city, Malawi. It will add to the existing body of knowledge about the proportion of teachers with knowledge of COVID-19 vaccines and if teachers are vaccine hesitant or want to go forward with it and if they are able to teach learners in covid-19 preventative measures in schools.
Enablers and barriers to adherence to newly introduced oral treatment resistant tuberculosis in Mangochi District, Malawi PTL: Michael Chifundo Manong'a Status: ✓ Provisional Approval ✓ Presented project at MR Forum 2021	Mangochi, Malawi	In the past, Multi-Drug Resistant (MDR)-TB injectable treatment regimens were used in Malawi as standard treatment. However, WHO has recommended a change to pills for MDR- TB. The enablers and barriers to this new approach have not been studied. Since many MDR-TB patients are also treated for HIV with a high "pill burden", a potential for increasing default rate is possible. The researchers plan to do a qualitative study to examine enablers and barriers to pill adherence among MDR-TB patients in Central Malawi. If successful, the study may identify enablers for treatment adherence to be promoted and strategies to overcome the barriers. This information may guide new treatment protocols.
Exploring contributing factors to birth asphyxia: A case of Mangochi District Hospital Maternity Wing, Malawi PTL: Wilford Kamanula Status: ✓ Provisional Approval	Mangochi, Malawi	Birth Asphyxia continues to be one of the contributing factors to neonatal mortality worldwide and Malawi is not an exceptional. Reports show that Birth asphyxia contributes about 28% towards total neonatal deaths in Malawi (Malawi Demographic Survey 2015). At Mangochi district Hospital 60% of neonatal mortality rate is due to birth asphyxia (DHIS2, 2020). The main objective is to explore factors contributing to birth asphyxia at Mangochi District Hospital Maternity wing.

Stigma associated with	Mangochi,	COVID-19 is now a well recognized serious global public health
infectious diseases among	Malawi	pandemic. Health care workers have experienced stigma in a
health care workers: A case		number of settings because they are directly involved in the
of COVID-19 in Mangochi,		diagnosis, treatment and care of patients with COVID 19 hence
Malawi		may be regarded as at increased risk for infection potential for
		spreading the virus to those they are in contact with. Evidence
PTL: Ezekiel Kadango		from literature is not clear as to whether health care workers in
		Mangochi Malawi face Covid 19 related stigma or not as has
Status:		been reported in other countries. Therefore, this project will
 Provisional Approval 		conduct a study to determine if there is stigma among health
		care workers due to proximity to COVID-19 in Mangochi,
		Malawi. The study will answer the research question are health
		care workers facing any kind of COVID 19 related stigma, what
		is the magnitude.



MicroResearch Workshop in Mangochi, Malawi – February, 2021

Economic justification for	Makerere,	Community Based Health Insurance (CBHI) is a feasible way to
_		
community-based health	Uganda	increase access to health care and provide protection against
insurance in Uganda: A		heavy health expenditures. CBHI is suitable for developing
case of Save for Health,		countries like Uganda because it provides indemnification to
Luweero District, Uganda		persons in less organized settings and low- income earners who
		have limited financial backup from other sources and rely on
PTL: Judith Flavia Najirijja		government health services that do not protect them from
		serious illnesses. Data will be collected through conducting
Status:		interviews with key informants and beneficiaries of the health
✓ Under review		insurance scheme managed by SHU.
	Kananala	
Factors associated with	Kampala,	Relapse among patients with severe mental disorders is a major
relapse among patients	Uganda	concern associated with increased burden in terms of morbidity,
with severe mental illness		mortality and treatment costs. Relapse in severe mental illnesses
in Kampala		is a world wide problem. Factors affecting relapse and
		readmission rates are heterogeneous and need to be identified
PTL: Bives Mutume		to better allocate resources for improved outcomes among
		patients with mental illness. Despite the challenges associated
Status:		with relapse among patients with mental illness at individual and
✓ Under review		
		family levels, research studies linking associated factors and
✓ Presented project at		relapse in mental disorders in Uganda are sparse. Hence this
MR Forum 2021		study is aimed to determine the factors associated with relapse
		among patients with severe mental disorders in south western
		Uganda.

Male involvement in	MUST,	Over the years, millions of menstruators have been directly or
menstrual health and	Mbarara,	indirectly denied the right to manage their monthly menstrual
hygiene in Mbarara	Uganda	cycle in a dignified and healthy way. This has caused
District, Uganda		menstruators to face stigma, harassment and social exclusion
		during menstruation. Less effort has been done to promote the
PTL: Evas Nimusiima		involvement of men and boys in menstruation and menstrual
		health hygiene yet by roles and responsibilities attributed to
Status:		being a man, it is known that men and boys have the potential to
✓ Provisional approval		support women and girls to manage their menstruation
		effectively across different social domains including household,
		community, school and at work. Therefore, this project is set to
		explore the knowledge, attitude and practices of males and
		females towards male involvement in menstrual health and
		hygiene.
An explorative study on	Kabale,	The project will involve healthcare workers working at
healthcare providers'	Uganda	healthcare centres in Uganda. In particular, the project leaders
experiences influencing		will acquire information related to their experiences during the
attendanceof ANC services		previous and current covid lockdown in Uganda to identify
during the COVID-19		opportunities and challenges associated with covid19 at the
lockdown period at		antenatal care clinics at health centre IVs in Kabale districts.
healthcare centres in		Close to no study has been conducted in developing countries
Kabale, Uganda		(especially in Africa), and yet healthcare workers have been
		reported to be suffering from anxiety and mental stress while
PTL: Keneth Iceland Kasozi		working in an environment where their colleagues are dying
		from the pandemic.
Status:		
✓ Under review		



Judges at the Malawi workshop – February, 2021

Comments from participants in 2021:

"The knowledge I have learnt will benefit every student that I teach and colleagues at work because I will share the resources, knowledge and skills obtained from the workshop."

"I am going to be a better reviewer for journals that usually contact me to review their articles"

MicroResearch-based Thesis Workshop for Post-Graduates

	Program	Proposed Thesis Topic	Project Update
Mung'ara David	Fam Med	What are the doctors' knowledge and attitude with regard to in-patient adults' end of life care? (A study in Kijabe hospital, central Kenya)	 ✓ Completed ✓ Passed thesis defense ✓ Published in Kabarak University (KABU) journal
Boaz Niyinyumva	Fam Med	Do culture and social norms affect whether or not a patient has health insurance? A study in hospitalized patients from 18 years and above at Chogoria Hospital, Tharaka Nithi County- Eastern Kenya?	 ✓ Completed ✓ Passed thesis defense ✓ Published in KABU journal
Elijah Yulu	Fam Med	Does having National Health Insurance Fund coverage affect clinician's medical decision making in the outpatient and inpatient setting at PCEA Chogoria Hospital, rural Eastern Kenya?	 ✓ Completed ✓ Passed thesis defense ✓ Published in KABU journal
Faith Lelei- Mailu	Fam Med	How prepared do family members feel they are to provide end of life care for their advanced cancer patients?	 ✓ Completed ✓ Passed thesis defense ✓ Published in KABU journal
Terer, Elijah	Fam Med	What are the stated reasons for delayed presentations of non-pregnant women 18 yrs. and above with abnormal vaginal bleeding in the two referral hospitals in Bomet county Kenya?	 ✓ Completed ✓ Passed thesis defense ✓ Published in KABU journal

Kabarak University, Kenya - May 2017



MicroResearch Thesis Workshop at Kabarak University, Kenya – May, 2017

MicroResearch-based Thesis Workshop for Post-Graduates Kabarak University, Kenya – May, 2018

	Program	Proposed Thesis Topic	Project Update
Mourine Melenia	Fam Med	What methods are commonly used to procure illegal abortion and how are the accessed by women in Bomet County?	 ✓ Completed ✓ Passed thesis defense ✓ Published in Kabarak University (KABU) journal
Sarah Kiptinness	Fam Med	How effective is universal screening compared to selective risk factor-based screening for gestational diabetes at Kijabe Hospital?	 ✓ Completed ✓ Passed thesis defense ✓ Published in KABU journal
Hillary Kositany	Fam Med	What are the reasons for the timing of first antenatal visit among women at Temek Hospital?	 ✓ Passed thesis defense with minor revisions ✓ Projected to graduate Dec 2021
Bramwel Wekesa	Fam Med	What is the adequacy of informed consent for elective cesarean section for women presenting at Kijabe Hospital? What are women's views towards the informed consent process at Kijabe Hospital?	✓ Passed proposal defense
Musa Saruti	Fam Med	What are health care providers' reasons for prescribing antibiotics for upper respiratory tract infections to children less than 5 years in outpatient clinics in Chuka and Chogoria Hospitals?	 ✓ Completed ✓ Passed thesis defense ✓ Published in KABU journal
Gad Igiraneza	Fam Med	What are the Opinions and understanding of vasectomy among married men in Chogoria, Tharaka Nithi County Kenya?	 ✓ Completed ✓ Passed thesis defense ✓ Published in KABU journal
Joy Sinkeet	Fam Med	What are the healthcare seeking behaviours of female sex workers in Bomet county, a rural read in South Rift part of Kenya?	 ✓ Completed ✓ Passed thesis defense ✓ Published in KABU journal
Caroline Chepngeno	Nutrition	What are the risk factors of metabolic syndrome among university staff?	 ✓ Completed ✓ Passed thesis defense ✓ Published in KABU journal
Dominic Kiprotich	Nutrition	How many diabetic patients attending diabetic clinic at Nakuru level 5 Hospital receive nutrition counselling and translate it to actual practice?	 ✓ Completed ✓ Passed thesis defense ✓ Published in KABU journal
Eddah Chepkoton	Nutrition	What is the prevalence of overweight, obesity and nutritional status among rural middle-aged women and the association with socio- demographic factors in Rongai Sub-county?	 ✓ Completed ✓ Passed thesis defense ✓ Published in KABU journal
Everlyne Malanda	Nutrition	What it's the prevalence of maternal obesity and child under nutrition in low resource urban setting in Nakuru county?	 ✓ Completed ✓ Passed thesis defense ✓ Published in KABU journal
Winnie Moimet	Nutrition	What are the dietary practices of hypertensive patients attending Nakuru level 5 Hospital?	 ✓ Completed ✓ Passed thesis defense ✓ Published in KABU journal



Participants at Kabarak Workshop May 2019

MicroResearch-based Thesis Workshop for Post-Graduates Kabarak University, Kenya – May 2019

	Program	Proposed Thesis Topic	Project update
Nourine Chepkemoi	Nutrition	Dietary intake and Nutritional Status of adults with Pulmonary Tuberculosis and HIV co-infection in Kericho County Hospitals	✓ Data collection and thesis writing stage
Jane Kilonzi	Nutrition	To assess the nutritional knowledge levels of mothers on recommended child feeding practices in Moi Teaching Referral Hospital	✓ Data collection and thesis writing stage
Sifora Chaleabo	Fam Med	What are the factors that affect adherence to Standard Operating Procedures among laboratory personnel, in Bomet county Kenya?	 ✓ Passed proposal defense stage ✓ Data collection and thesis writing stage
Belyse Arakaza	Fam Med	What is the knowledge, attitudes and self- reported cervical cancer screening practices among female clinicians in Kiambu county?	✓ Passed proposal defense
Amy Akim	Fam Med	What is the prevalence and factors associated with burnout among Family Medicine residents in Kenya?	 ✓ Passed proposal defense
Faith Kimutai	Nutrition	What is the double burden of malnutrition among the under 5 school going children in Ainamoi subcounty Kericho county?	✓ Data collection and thesis writing stage



MicroResearch Writing Workshop, MUST Uganda, June 2019; MicroResearch Writing Workshop, MUST Uganda, February 2020;

June 2019 - MUST, Uganda ¹					
Institution/Location	Participants	1st Draft Manuscripts prepared			
MUST	9	5			
CUHAS	11	4			
U of Calgary	3	N/A			
Februar	February, 2020 – MUST, Uganda				
MUST	15	15			
Novembe	November, 2020 – Virtual Workshop				
MUST	3	3			
Kigali, Rwanda	2	2			
Georgetown, Guyana	3	3			
Kabarak, Kenya	1	Pending			
February, 2021 – Virtual Workshop for MUST					
MUST	10	10			

MicroResearch Scientific Writing Workshops

1. Supported by Maternal Newborn Child Health Institute, Mbarara University of Science Technology (MUST), Catholic University of Health Allied Sciences (CUHAS), University of Calgary, and Dalhousie University. Each team from MUST and CUHAS had data from one or two projects, which formed the background to develop a draft manuscript



Left: MR Virtual Writing Workshop, with participants from Guyana, Rwanda, Kenya, and Uganda – November 2020 Right: MUST Virtual Writing Workshop- February 2021

MicroResearch Virtual Forum June 23 and 24, 2021

MicroResearch International was granted funds from the Royal College of Physicians and Surgeons of Canada to hold the third Regional Forum in Uganda. Due to travel restrictions during the pandemic, the forum was moved to a virtual platform. Despite the limitations that virtual meetings can entail, it provided an opportunity for a greater range of people from different countries to attend.

The objectives of this two-day Forum were to:

- Foster discussion on the three theme areas: Research Ethics, Education-Growing a Culture of Inquiry, and Knowledge Translation
- Provide an opportunity for MicroResearch investigators to present their research projects, plans and outcomes and exchange ideas
- Encourage networking with other MicroResearchers from eastern Africa and beyond
- Carry out a Focus Group Discussions on future direction for MicroResearch
- Contribute background and input for the development of the 2021 MicroResearch Strategic Thinking plan



The Research Education panel at the MR Virtual Forum, June 2021

Five African countries involved: Uganda, Kenya, Rwanda, Tanzania, and Malawi Number of African participants: 38 Number of African panelists: 10 Number of African project presenters: 9 Number of guests/observers from Canada: 6

MR Forum Project Presentations

Jean Pierre Gafaranga (Rwanda): "Cervical cancer screening: Why do not Rwandan women go for cervical cancer screening?" – *Selected as a runner-up for best presentation*

Bives Mutume (Uganda): "Factors associated with relapse among patients with severe mental illness at Kampala International University Teaching Hospital Mental health and Psychiatry ward" (5 min)

Michael Chifundo Manonga (Malawi): "Exploring adherence to newly introduced oral drugs for TB drug-resistant patients" (5 min)

George Mwenye-Phiri (Malawi): "Exploring knowledge and practices of Covid 19 preventive measures among secondary school teachers in public schools within Lilongwe City, Malawi"

Elizabeth Kemigisha (Uganda): "Voices of young adolescents in schools regarding the COVID-19 pandemic and prevention measures: A qualitative study in South Western Uganda using a mail box technique"

Polyphile Nthihinyurwa (Rwanda): "Cascade training for medical residents in Rwanda following a MicroResearch workshop" – *Selected as* 1^{st} *place 5-minute presentation*

Sifora Fanta Chaleabo (Kenya): "Lab SOPs: Perceived factors influencing adherence to standard operating procedures among laboratory personnel" – *Selected as a runner-up for best presentation*

Calorine Natuhwera (Uganda): "Knowledge, experiences, challenges faced by adolescents with disabilities in handling menstruation and forms of support by caregivers in Mbarara District, Uganda"

Elizabeth Kemigisha (Uganda): "Evaluation of a short menstrual hygiene training among adolescent girls in Nakivale refugee settlement" – *Selected as* 1st place 10-minute presentation

Catherine Abaasa (Uganda): "Healthcare providers' and caregivers' perspectives on malnutrition of children aged 0-59 months" – *Selected as a runner-up for best presentation*

Janeth Bulemala (Tanzania): "Exclusive Breastfeeding: Assessment of attitudes among mothers attending Ifakara Reproductive & Child Clinic"

Next steps: The forum evaluation and comments from participants indicate that ongoing dialogue around these themes and issues is needed. The creation of working groups for further discussion was one outcome from this forum. A need for topic-specific networks was also identified to foster more networking between institutions and different countries. Finally, many participants indicated the need for more regular forums to be able to network and share research findings. Another forum is being planned for the following year.



We thank the following for their support

Primary Partners:



Dalhousie MEDICAL RESEARCH Foundation





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Other Sponsors and Supporters	Nairobi Hospital, Kenya
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Kabarack University, Kenya	University of Malawi, Malawi
Makerere University, Uganda	University of Nairobi, Kenya
Maternal, Newborn, Child Health Institute, MUST,	Endorsements from:
Uganda	Canadian Paediatric Society (CPS)
Mbarara University of Science & Technology MUST), Uganda	Society of Obstetricians & Gynecologists of Canada (SOGC)
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