

# MicroResearch

Training Graduates &  
Research Projects  
January 2024



*Participants from MicroResearch workshop with Kenya Medical Training College in Kapenguria, Kenya, November, 2023  
All photos in this book are used with permission*

Updates to project booklet can be found at <http://www.microresearch.ca/projects>



*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 identification with humanity through the work of MicroResearch.

**RESPECT:** Commitment to pursue the questions that matter and are identified by the people we serve.

**CULTURE:** Unequivocal pursuit of capacity building, human resource development and a healthy environment.

[www.microresearch.ca](http://www.microresearch.ca)

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

Email: [microresearch@dal.ca](mailto:microresearch@dal.ca)

© MicroResearch 2024

## Table of Contents

<b><i>MicroResearch Workshops over the Years</i></b> .....	<b>3</b>
Summary of MicroResearch Training Workshops and Outcomes.....	4
Summary of Other MicroResearch Training Workshops .....	4
<b><i>Publications on MicroResearch Projects</i></b> .....	<b>5</b>
<b><i>Publications related to MicroResearch</i></b> .....	<b>8</b>
<b><i>Selected Research Projects by MicroResearch Graduates</i></b> .....	<b>10</b>
<b><i>Ongoing MicroResearch Projects</i></b> .....	<b>17</b>
<b><i>MicroResearch Knowledge Translation Projects</i></b> .....	<b>28</b>
<b><i>Other MicroResearch Activities:</i></b> .....	<b>30</b>
MicroResearch-based Thesis Workshop Kabarak University, Kenya - May 2017.....	30
MicroResearch-based Thesis Workshop Kabarak University, Kenya – May, 2018.....	31
MicroResearch-based Thesis Workshop Kabarak University, Kenya – May 2019.....	32
MicroResearch-based Thesis Workshop Kabarak University, Kenya – Nov, 2020 .....	38
MicroResearch-based Thesis Workshop Kabarak University, Kenya – Nov, 2021 .....	39
MicroResearch Scientific Writing Workshops .....	40



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

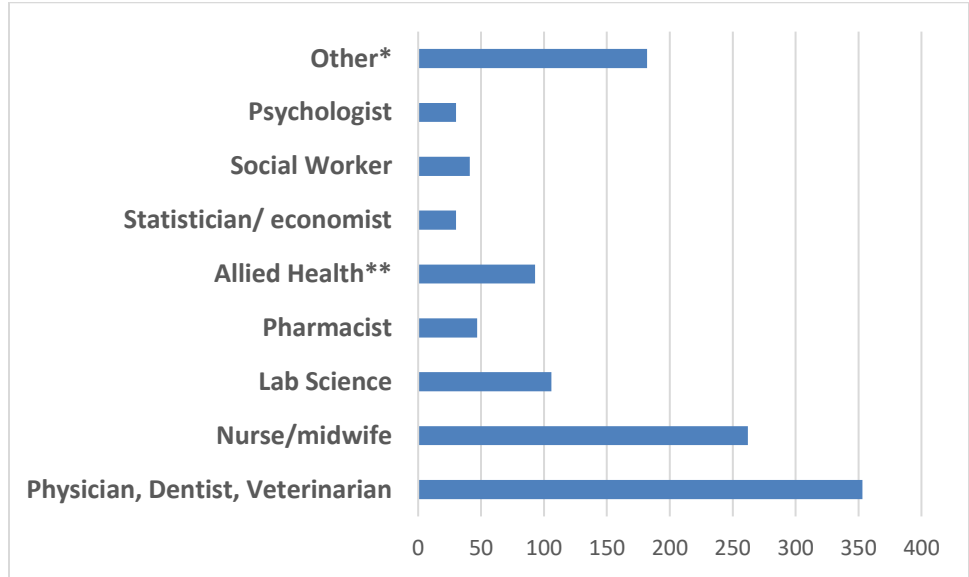
***“MicroResearch was eye opening, and I am positive that it will change my life.”***

*MR participants 2017*

## MicroResearch Workshops over the Years

Since 2008, 59 training workshops have been held in Kenya, Tanzania, Uganda, Malawi, Ethiopia, Rwanda, Ghana, Nepal, and Guyana resulting in **1,366 graduates**. This includes all participants from Standard MR Workshops, Writing Workshops, and Post-Graduate Training Workshops.

<b>Female 48.9% (537/1,098)</b>	<b>MD &amp; Nurse 53.7% (615/1,144)</b>
---------------------------------	---



\*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



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

## Summary of MicroResearch Training Workshops and Outcomes

	2008 - 2009	2010- 2011	2012 - 2013	2014 - 2015	2016 - 2017	2018 - 2019	2020 - 2021	2022- 2023	Total
Participants	21	110	256	284	178	168	69	163	1,249
Workshops	1	5	9	10	8	7	3	6	49
Team Projects Developed	3	17	36	45	28	28	14	27	198
Projects submitted to MR <sup>1</sup>	1	19	27	22	36	24	21	19	169
Projects launched <sup>2</sup>	1	9	17	36	27	23	13	5	131
<b>Projects completed as of July 2023</b>									<b>51</b>
<b>Pub Med Journal publication or Book Chapters on MR Projects as of July 2023</b>									<b>47</b>
<b>Publications related to MicroResearch as of January 2024</b>									<b>12</b>

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

## Summary of Other MicroResearch Training Workshops

	2017	2018	2019	2020	2021	2022	2023	Total
<b>Writing Workshops<sup>2</sup></b>	-	-	1	2	1	-	-	4
<b>Writing Workshop Participants</b>	-	-	23	21	10	-	-	54
<b>Train the Trainer Workshops<sup>1</sup></b>	-	-	-	1	3	1	2	6
<b>Train the Trainer Participants</b>	-	-	-	14	37	6	26	83
<b>Thesis Development Workshops</b>	1	1	1	1	1	1	1	6
<b>Thesis Development Workshop Participants</b>	13	13	6	13	3	7	10	63

<sup>1</sup>Writing Workshops and Train the Trainer Workshops were held for participants in Uganda, Kenya, Guyana, Malawi, India, Kenya, and Ghana

## Publications on MicroResearch Projects

1. Scholastic A, Kyomuhangi T, Santorino D, Macdonald N, Leblanc J. Healthy Child Uganda survey of knowledge, attitude and behaviour of village health team members toward their health care responsibilities in southwest Uganda. *Paediatr Child Health*. 2012;17(8):e89. DOI: 10.1093/pch/17.8.e89
2. Atwiine BR, Rukundo A, Sebikali JM, Mutibwa D, Tumusiime D, Turyamureeba R, Birungi L, Tibanyendera B, Schlech W, MacDonald NE. Knowledge and practices of women regarding prevention of mother-to-child transmission of HIV (PMTCT) in rural south-west Uganda. *Int J Infect Dis*. 2013;17(3):e211-2. DOI: 10.1016/j.ijid.2012.09.018
3. Kamuchaki JM, Wobudeya E, Kiguli S, Bortolussi R. Efficacy of glutamine supplementation on the outcome of children admitted with persistent diarrhea in Uganda: A randomized controlled study. *Paediatr Child Health*. 2013;18(1):e1. DOI: 10.1093/pch/18.1.e1
4. Kamuchaki JM, Kiguli S, Wobudeya E, Bortolussi R. No benefit of glutamine supplementation on persistent diarrhea in Ugandan children. *Pediatr Infect Dis J*. 2013;32(5):573-6. DOI: 10.1097/INF.0b013e318286be29
5. Beinempaka F, Tibanyendera B, Atwine F, Kyomuhangi T, MacDonald NE. The practice of traditional rituals and customs in newborns by mothers in selected villages in southwest Uganda. *Paediatr Child Health*. 2014;19(2):72. DOI: 10.1093/pch/19.2.72
6. Grant E, Munube D, Lumala P, Sentongo SA, Dodds L, Bortolussi R, MacDonald NE. Neonatal deaths and umbilical cord care practices in Luweero District in Uganda. *Paediatr Child Health*. 2014;19:333. DOI: 10.1093/pch/19.6.333
7. Mang'Oli P, Theuri, J, Kollmann T, MacDonald NE. Ponseti clubfoot management: our experience with the Steenbeek foot abduction brace. *Paediatr Child Health*. 2014;19:513-5. DOI: 10.1093/pch/19.10.513
8. Mang'Oli P, Kollmann T. Letter to Editor Reply to Matos MA on Ponseti clubfoot management: our experience with the Steenbeek foot abduction brace. *Paediatr Child Health*. 2015;20:148.
9. 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.
10. Arkell C, MacPhail C, Abdalla S, Grant E, Ashaba S, Chebet L, Beinempaka F, Pemba S, Kollmann T, Bortolussi R, MacDonald NE. MicroResearch in East Africa: opportunities for addressing gender inequity. *J Obstet Gynaecol Can*. 2015;37(10):897–898.
11. Natukunda P, Agaba E, Wabuyi P, Bortolussi R, McBride E. Knowledge, attitudes, and practices about regular, voluntary non-remunerated blood donation in peri-urban and rural communities in Mbarara district, south western Uganda, and its impact on maternal health. *J Obstet Gynaecol Can*. 2015;37(10):903–904.
12. English L, Mugenyi GR, Ngonzi J, Kiwanuka G, Nightingale I, Koren G, MacLeod S, Grunau BE, Wiens MO. Prevalence of ethanol use among pregnant women in Southwestern Uganda. *J Obstet Gynaecol Can*. 2015;37(10):901–902. DOI: 10.1007/s10995-016-2025-x
13. Ashaba S, Rukundo GZ, Beinempaka F, Ntaro M, LeBlanc JC. Maternal depression and malnutrition in children in southwest Uganda: a case control study. *BMC Public Health*. 2015;15:1303. DOI: 10.1186/s12889-015-2644-y
14. Rukundo GZ, Abaasa C, Natukunda PB, Ashabahebwa BH, Allain D. Antenatal services for pregnant teenagers in Mbarara Municipality, Southwestern Uganda: health workers and community leaders' views. *BMC Pregnancy and Childbirth*. 2015; 15:351. DOI: 10.1186/s12884-015-0772-0
15. Mulisa G, Workneh T, Hordofa N, Saudi M, Abebe G, Jarso G. Multidrug-resistant mycobacterium tuberculosis and associated risk factors in Oromia Region of Ethiopia. *Int J Infect Dis*. 2015;39:57-61. DOI: 10.1016/j.ijid.2015.08.013



16. Kyomuhangi T, Biraro SI, Kabakyenga J, Muchunguzu C, MacDonald NE. The contribution to mothers' health by village health team promotion practices: A case study of Kyabugimbi subcounty Bushenyi District. *Can J Public Health*. 2015; 106: e 565. DOI: 10.17269/CJPH.106.5394
17. Atwiine B, Rukundo A, Elias B, MacDonald NE. Reasons for non-timely completion of the routine infant immunization schedule by children in rural South West Uganda. *Can J Public Health*. 2015;106:e564. DOI: 10.17269/CJPH.106.5393
18. Nannozi V, Wobudeya E, Gahagan J. Fear of an HIV positive test result: an exploration of the low uptake of couples HIV counselling and testing (CHCT) in a rural setting in Mukono district, Uganda. *Glob Health Promot*. 2017;24(4):33-42. DOI: 10.1177/1757975916635079
19. Kemigisha E, Atwine D, Orikiriza P, Natukunda N, MacDonald NE. Knowledge and practices of Village Health Team members in early detection and care for children with severe acute malnutrition at the community level: A case study in rural Uganda. *Can J Public Health* 2016;109: e486-7. DOI: 10.17269/CJPH.107.5764
20. Nannozi V, Wobudeya E, Matsiko N, Gahagan J. Motivators of couple HIV counseling and testing (CHCT) uptake in a rural setting in Uganda. *BMC Public Health* 2017;17:104. DOI: 10.1186/s12889-017-4043-z
21. Mugisha TI, Ashaba S, Adrama H, Carirona A, Omoding D, Kemeza I, Yatuha J, Turuha T, MacDonald NE, Hilliard R. Knowledge, attitude and behaviour towards the use of insecticide treated mosquito nets among pregnant women and children in rural Southwestern Uganda. *BMC Public Health* 2017; 17:794. DOI: 10.1186/s12889-017-4824-4
22. Hobbs A, Turyakira E, Kabakyenga JK, Nettel-Aguirre A, Kyomuhangi K, Brenner JL. High retention of Community Health Workers in a rural district in Southwestern Uganda. *BMC Proceedings* 2017, 11(Suppl 6): 016. DOI: 10.1186/s12919-017-0074-9
23. Kyokushaba C, Ainembabazi D, Naggayi B, Ashaba S. The lived experience of Village Health Team Members: A survey in Kinoni Health Sub-District in Uganda. *BMC Proceedings* 2017, 11(Suppl 6): 067. DOI: 10.1186/s12919-017-0074-9.
24. Ninsiima R, Wotton K, Ball AM, Kyomuhangi T. Community health workers promote nutrition among mothers and children using high Vitamin A Orange Sweet Potato (OSP) - 4 year experience. *BMC Proceedings* 2017, 11(Suppl 6):075. DOI: 10.1186/s12919-017-0074-9.
25. Kyomuhangi T, Brenner JL, Beinempaka F, Tibanyendera B, Kabakyenga JK. Obuntism in relation to community health work in Southwestern Uganda. *BMC Proceedings* 2017, 11(Suppl 6):O60. DOI 10.1186/s12919-017-0074-9.
26. Lang'at PC, Ogada I, Steenbeek A, MacDonald NE, Ochola S, Bor W, Odinga G. Infant feeding practices among HIV-exposed infants less than 6 months of age in Bomet County, Kenya: an in-depth qualitative study of feeding choices *Arch Dis Child*. 2018;103(5):470-3. DOI: 10.1136/archdischild-2017-314521.
27. Kyomuhangi T. A mother's fear from Uganda: A story told and lessons to be learned. *Paediatrics & Child Health*. 2019 Feb 1; 24(1): 23-24. DOI: [10.1093/pch/pxy101](https://doi.org/10.1093/pch/pxy101)
28. Ivanova O, Rai M, Mlahagwa W, Tumuhairwe J, Bakuli A, Nyakato VN, Kemigisha E. A cross-sectional mixed-methods study of sexual and reproductive health knowledge, experiences and access to services among refugee adolescent girls in the Nakivale refugee settlement, Uganda. *Reproductive Health*. 2019;16(1):35. DOI: 10.1186/s12978-019-0698-5
29. Rukundo GZ, Abaasa C, Natukunda PB, Allain D. Parents' and caretakers' perceptions and concerns about accessibility of antenatal services by pregnant teenagers in Mbarara Municipality, Uganda. *Midwifery*. 2019;72:74-9. DOI: 10.1016/j.midw.2019.02.011

30. Mukisa J, Grant I, Magala J, Ssemata AS, Lumala PZ, Byamugisha J. Level of Partograph completion and healthcare workers' perspectives on its use in Mulago National Referral and teaching hospital, Kampala, Uganda. *BMC Health Services Research*. 2019;19(1):107. DOI: 10.1186/s12913-019-3934-3
31. Kanyesigye H, Muhwezi O, Kazungu C, Kemigisha E, Woolcott C. Will district health centres use preloaded cell phones for pre-referral phone calls for women in labour: a randomized pilot study at Mbarara Regional Referral Hospital in southwest Uganda. *Canadian Journal of Public Health*. 2019;110(4):520-522. DOI: 10.17269/s41997-019-00222-3
32. Bulemela J, Mapunda H, Snelgrove-Clarke E, MacDonald N, Bortolussi R. Supporting breastfeeding: Tanzanian men's knowledge and attitude towards exclusive breastfeeding. *International Breastfeeding Journal*. 2019;14(1):1-7. DOI: 10.1186/s13006-019-0244-7
33. Maina AN, Bii LC. Factors affecting HBV vaccination in a Medical training College in Kenya: A mixed methods Study. *BMC Public Health*. 2020 Dec;20(1):1-2. DOI: 10.1186/s12889-020-8158-2
34. Kemigisha E, Rai M, Mlahagwa W, Nyakato VN, Ivanova O. A Qualitative Study Exploring Menstruation Experiences and Practices among Adolescent Girls Living in the Nakivale Refugee Settlement, Uganda. *International Journal of Environmental Research and Public Health*. 2020 Jan;17(18):6613. DOI: 10.3390/ijerph17186613
35. Taremwa IM, Ashaba S, Ayebazibwe C, Kemeza I, Adrama HO, Omoding D, Yatuha J, Hilliard R. Mind the gap: scaling up the utilization of insecticide treated mosquito nets using a knowledge translation model in Isingiro district, rural south western Uganda. *Health Psychology and Behavioral Medicine*. 2020 Jan 1;8(1):383-97. DOI: 10.1080/21642850.2020.1814782
36. Murembe N, Kyomuhangi T, Manalili K, Beinempaka F, Nakazibwe P, Kyokushaba C, Tibanyendera B, Brenner JL, Turyakira E. Context matters in understanding the vulnerability of women: perspectives from southwestern Uganda. *Archives of Public Health*. 2021 Dec;79(1):1-4. DOI: 10.1186/s13690-020-00523-x
37. Abaasa CN, Rukundo GZ, Ayesiga S, Atukunda SP, Campisi S, O'Hearn S, MacDonald N. Healthcare providers and caregivers' perspectives on factors responsible for persistent malnutrition of under 5 children in Buhweju district, South Western Uganda; a phenomenological qualitative study. *BMC public health*. 2021 Dec;21(1):1-0. DOI: 10.1186/s12889-021-11432-1
38. Beebwa E, Namagga JK, Ashaba S. The role of community health nursing in identifying needs of women and children under fives in katete, mbarara-uganda. *International Journal of Africa Nursing Sciences*. 2021 Jul 21:100335. DOI: 10.1016/j.ijans.2021.100335
39. Getachew B, Solomon S, Ramet BT, Mezgebu T, Ewnetu DB, MacDonald N. Feeding Experiences of HIV-Exposed Preterm Infants Among Mothers Living with HIV in Addis Ababa, Ethiopia: A Qualitative Study. *HIV/AIDS (Auckland, NZ)*. 2021;13:973. DOI: 10.2147%2FHIV.S333537
40. Taremwa IM, Ashaba S, Kyarisiima R, Ayebazibwe C, Ninsiima R, Mattison C. Treatment-seeking and uptake of malaria prevention strategies among pregnant women and caregivers of children under-five years during COVID-19 pandemic in rural communities in South West Uganda: a qualitative study. *BMC Public Health*. 2022 Feb;22(1):1-3. DOI: 10.1186/s12889-022-12771-3
41. Vivalya BM, Vagheni MM, Piripiri AL, Masuka RK, Omba AN, Mankubu AN, Andjafono DO, Kitoko GM. Prevalence and factors associated with relapse and long hospital stay among adult psychiatric patients with a history of childhood trauma. *Psychiatry Research*. 2022 Jul 26:114745. DOI: 10.1016/j.psychres.2022.114745
42. Gafaranga JP, Manirakiza F, Ndagijimana E, Ulimubabo JC, Karenzi DI, Muhawenayo E, Gashugi P, Nyirasebura D, Rugwizangoga B. Knowledge, Barriers, and Motivators to Cervical Cancer Screening in Rwanda: a Qualitative Study. *International Journal of Women's Health*. 2022 Sept 14: 1191-1200. DOI: 10.2147/IJWH.S374487



43. Kanyesigye, H., Kabakyenga, J., Mulogo, E. et al. Improved maternal–fetal outcomes among emergency obstetric referrals following phone call communication at a teaching hospital in south western Uganda: a quasi-experimental study. *BMC Pregnancy Childbirth* 22, 684 (2022). DOI: 10.1186/s12884-022-05007-0
44. Mukama Semei, C., Nakubulwa, S., Nyirabega, E., Mugabe, P., et al Predictors of access to sexual and reproductive health services by urban refugees in Kampala City, Uganda. *International Journal of Women’s Health Care*, 7(3), 131-139.
45. Taremwa IM, Ashaba S, Naggayi BRK, Kayongo B, Nimwesiga C, Ayebazibwe C, Tumuhimbse M, Frank J. Psychosocial Challenges of the Coronavirus Disease-2019 Pandemic Among Frontline Health Care Providers and Their Coping Mechanisms at Mbarara Regional Referral Hospital, Southwestern Uganda. *Psychological Research Behavioral Management*, 2023;16:549-560. DOI: 10.2147/PRBM.S399687
46. Drobish IC, Barasa IK, Otieno G, Osoo MO, Thuo SK, Belknap KS, Shirk AM, McClanahan ST, Irungu E, Riunga F. Prevalence of antimicrobial resistance and association with patient outcomes in a rural Kenyan hospital. *American Journal of Tropical Medicine and Hygiene*. 2023;1. DOI: 10.4269/ajtmh.22-0311
47. Bulemela JC, Kyungu E, Kambona J, Sarapion H, Erasto R, Chanoine JP. Health-Related Quality of Life in Children and Youth with Type 1 Diabetes Living in Eastern and Southern Highlands, Tanzania. *The African Journal of Pediatric Endocrinology and Metabolism*. 2023 Jul 4;1(1):8-18.

### **Publications related to MicroResearch**

1. MacDonald NE, Kabakeyenga J. MicroResearch: borrowing from the microfinance experience. *CMAJ*. 2008;179(5):399. DOI: 10.1503/cmaj.081123
2. MacDonald NE, Bortolussi R, Kabakyenga J, Pemba S, Estambale B, Kollmann KHM, Odoi Adome R, Appleton M. MicroResearch: Finding sustainable local health solutions in East Africa through small local research studies. *J Epidemiol Glob Health*. 2014;4:185-193. DOI: 10.1016/j.jegh.2014.01.002
3. Bortolussi R, MacDonald NE, Moraca S, Grant E. Assessing healthcare needs and research barriers for community focused interdisciplinary health research capacity building using MicroResearch model in East Africa. *Paediatr Child Health*. 2014;19(6) e39.
4. Kollmann TR, Bortolussi R, MacDonald NE. MicroResearch – Finding sustainable solutions to local health challenges in East Africa. *J Infect*. 2015;71:S97-100. DOI: 10.1016/j.jinf.2015.04.022
5. MacDonald NE, Bortolussi R, Kabakyenga J, Pemba S, Estambale B, Kollmann KHM, Odoi Adome R, Appleton M. MicroResearch: Finding Sustainable Local Health Solutions In East Africa through Small Local Research Studies. In *Optimizing Treatment for Children in the Developing World*. Eds MacLeod S, Hill S, Koren G, Rane A. Adis. Springer International Publishing AG, Switzerland. Chapter 6, pp53-64. 2015.
6. MacDonald NE, Bortolussi R, Pemba S, Kabakyenga J, Tuyisenge L. Supporting research leadership in Africa. *Lancet Global Health* 2016 Jun;4(6):e362. DOI: 10.1016/S2213-8587(16)30093-6.
7. MacDonald N, Bortolussi R, Kabakyenga J, Frank J. Beyond implementation research for improving maternal child health globally. *CMAJ* 2017;189:e729.
8. Abdulla S, Botolussi R, MacDonald NE. MicroResearch: an effective approach to local research capacity development. *Lancet Global Health*. 2018;6:e377-378. DOI: 10.1016/S2214-109X(18)30069-X
9. Onguka S, Wechuli GM. Postgraduate research methods instruction in Africa: A MicroResearch approach to the postgraduate thesis. *Journal of Graduate Medical Education*. 2019; 11(4s):197-199. DOI: 10.4300/JGME-D-18-00991

10. Glenn LE, Simon L, Smith VS, Longenecker RL, Schmitz D, Patterson DG. Microresearch: Promoting Scholarly Activity That Addresses Health Disparities in Rural Health Professional Education Programs. *Journal of Health Care for the Poor and Underserved*. 2020;31(5):1-8. DOI: 10.1353/hpu.2020.0133
11. Wakida EK, Rukundo GZ, Atuhaire C, Karungi CK, Kumakech E, Haberer JE, Talib ZM, Obua C. Perceptions of Undergraduates and Mentors on the Appropriateness, Acceptability, and Feasibility of the HEPI-TUITAH Micro-Research Approach to HIV Training in Uganda. *Advances in Medical Education and Practice*. 2022 Apr 15;13:323-35. DOI:10.2147/AMEP.S359777
12. MacDonald NE, Bortolussi R, Kabakyenga J. A long-term process for decolonizing and democratizing community-focused research: the case for MicroResearch in East Africa and in Canada. *Canadian Journal of Public Health*. 2022 Aug 18:1-5. DOI: 10.17269/s41997-022-00680-2

***“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 MicroResearch Workshop has done is provide the tools to ask questions important to us. Thanks, and best wishes.”***

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



*MUST MR Workshop Class 2010*

## Selected Research Projects by MicroResearch Graduates

Team Lead	MR Site	Project title	Project update
Basil Tibanyendera	Mbarara, Uganda	Assessment of activities and impact of community owned resource persons (CORPS) on families and communities in Healthy Child Uganda Bwizibwera Project Area	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Report to MicroResearch</li> <li>✓ Presented to local health authorities &amp; Healthy Child Uganda</li> </ul>
Justine Kamuchaki	Mbarara, Uganda	Efficacy of glutamine supplementation on the outcome of children admitted with persistent diarrhea to Mulago hospital	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Published: Paediatrics &amp; Child Health 2013;18(1):e1</li> <li>✓ Published: Pediatric Infectious Disease Journal 2013;32(5):573-6</li> </ul>
Florence Beinempaka	Mbarara, Uganda	The practice of traditional rituals and customs in newborns by mothers in selected villages in Southwest Uganda	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Published: Paediatrics &amp; Child Health 2014;19:72.</li> <li>✓ Published: Journal of Obstetricians and Gynecologists of Canada 2015;37(10): 899-900</li> <li>✓ Presented to Ministry of Health, Uganda</li> <li>✓ Presented at MR Forum 2022</li> </ul>
Barnabas Atwiine	Mbarara, Uganda	Knowledge and Practices of Women Regarding PMTCT in Mwizi Sub-county	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Published: International Journal of Infectious Diseases 2013;17:e211-2</li> <li>✓ Presented to local health authorities &amp; Health Child Uganda</li> </ul>
Isha Grant	Makerere, Uganda	The impact of the VHT new born strategy in reducing perinatal deaths in a rural district of Uganda	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Published: Paediatrics &amp; Child Health 2014; 19:333.</li> <li>✓ Presented to Ministry of Health, Uganda</li> </ul>
Freddy Eric Kitutu	Makerere, Uganda	Frequency of malaria resulting in hospital admission among pregnant women and association with IPT use	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Report submitted to MicroResearch</li> </ul>
Ashaba Scholastic	Mbarara, Uganda	Healthy Child Uganda survey on Village Health Team Knowledge, Attitudes and Behaviour of VHTs towards their responsibilities in Mbarara District	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Published: Paediatrics &amp; Child Health 2012;17:e89</li> <li>✓ Presented to local health authorities and Health Child Uganda</li> </ul>

***“I’ll apply these skills in my research project and transfer it to my students and colleagues.”***

*MR Participant 2017*

Team Lead	MR Site	Project title	Project update
Moses Ntaro	Mbarara, Uganda	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	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Presented to Healthy Child Uganda</li> </ul>
Tusiimire Jonans	Mbarara, Uganda	Relationship between socioeconomic status and neonatal sepsis in Mbarara, Uganda	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Presented to Healthy Child Uganda and local health authority</li> </ul>
Natukwatsa Amon	Mbarara, Uganda	Assessing the relationship between social support system and nutrition status among children under 5 years	<ul style="list-style-type: none"> <li>✓ Project completed</li> </ul>
Nannozi Victoria	Makerere, Uganda	Couples HIV counseling and testing: factors influencing its uptake	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Report to MicroResearch</li> <li>✓ Published: Global Health Promotion 2016; 24(4): 33-42</li> <li>✓ Published: BMC Public Health 2017; 17:104</li> </ul>
Elizabeth Kemigisha	Mbarara, Uganda	Knowledge and current practices of Village Health Teams in early detection and care of young children with malnutrition in Healthy Child Uganda supported communities in Mwizi Sub County, Uganda	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Report to MicroResearch, combined with project in 2014</li> <li>✓ Published Can J Public Health 2016; 109: e486-7</li> <li>✓ Presented to Healthy Child Uganda and local health authority</li> </ul>
Natukunda Peace	Mbarara, Uganda	Knowledge, Attitudes and Practices about blood donation in rural communities of Kiruhura District, South Western Uganda	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Published Journal of Obstetricians and Gynecologists of Canada 2015; 37(10):903–904</li> <li>✓ Presented to local health authority</li> </ul>



*MicroResearch Workshop 2012 University of Nairobi*

***“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.”***

*MR participant 2012*

<b>Team Lead</b>	<b>MR Site</b>	<b>Project title</b>	<b>Project update</b>
Ashaba Scholastic	Mbarara, Uganda	Maternal mental health and Malnutrition in children admitted in Mbarara Regional Referral Hospital	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Published BMC Public Health 2015;15:1303</li> <li>✓ Presented to local health authority</li> </ul>
Clare Kyokushaba	Mbarara, Uganda	The Lived experience of VHT members in the Kinoni Health sub-district South West Uganda	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Abstract presented 2017</li> <li>✓ Presented 1st International Symposium on Community Health Workers. Kampala, Uganda 2017</li> <li>✓ Published: BMC Proceedings 2017 11 (Suppl 6): 067</li> </ul>
David Tumusiime Katuruba	Mbarara, Uganda	Role of income generating activities in motivation and retention of Village Health Teams in the Kinoni health sub-district.	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Report submitted Healthy Child Uganda</li> </ul>
Geoffrey Zari Rukundo	Mbarara, Uganda	Teenage antenatal services: Availability, accessibility and utilization of teenager friendly antenatal services in Mbarara Municipality, South Western Uganda	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Published: BMC Pregnancy and Childbirth 2015;15(351): 1-5.</li> <li>✓ Published: Midwifery 2019; 72: 74-79.</li> <li>✓ Presented at MUST</li> </ul>
Zabron Abel	Ifakara, Tanzania	Use of mobile phones to improve the antenatal care attendance of pregnant women in semi-urban south eastern Tanzania	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Report submitted</li> </ul>
Janeth Katana Bulemela	Ifakara, Tanzania	Assessment of Knowledge, practices and attitudes on Exclusive Breast Feeding (EBF) among mothers attending Ifakara Reproductive and Child Health Clinic (RCHC).	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Report submitted</li> <li>✓ Published: International Breastfeeding Journal (2019): 14(1): 1-7.</li> <li>✓ Project presented at MR Forum 2021</li> </ul>
Patrick Lumala Zzimbe	Makerere Uganda	The determinants of partograph use in Mulago Referral Hospital Labour Ward: Health workers perspective	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Report submitted</li> <li>✓ Published BMC Health Services Research 2019;19(107) 1-8.</li> </ul>
Barnabas Atwiine	Mbarara, Uganda	Reasons for and determinants of non-adherence to the UNEPI vaccination schedule among children in Kyabugimbi	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Published: Can J Public health 2015; 106: e 564</li> <li>✓ Presented to Healthy Child Uganda and local health authority</li> </ul>
Imelda Kemeza	Mbarara, Uganda	Factors Associated with Delayed Presentation of Children with Malaria to Kazo Health Centre	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Report submitted</li> </ul>

Team Lead	MR Site	Project title	Project update
Ednah Ojee	Nairobi, Kenya	Knowledge and Perception of Parents on Under-Nutrition of Children under 5 years receiving outpatient services in, Nairobi	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Poster presented: Int Ped Association Conference, Vancouver 2017</li> <li>✓ Presented Africa Health Agenda Int Conference, Nairobi 2018</li> </ul>
Leah Bii	Nairobi, Kenya	Hepatitis B Vaccination Coverage and Influencing Factors among Healthcare Students at Kenya Medical Training College, Kenya	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Published: BMC Public Health. 2020 Dec;20(1):1-2.</li> </ul>
Taremwa Ivan Mugisha	Mbarara, Uganda	Knowledge, Attitude and Behaviour Towards use of Insecticide Treated Mosquito Nets among Pregnant women and Children in Isingiro district	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Report to local health authority</li> <li>✓ Article: BMC Public Health 2017; 17:794</li> </ul>
Hamson Kanyesigye	Mbarara, Uganda	Effect of phone call on maternal and foetal outcomes prior and after maternal referrals from Isingiro district: A pilot study	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Report to Healthy Child Uganda</li> <li>✓ Published Can J Public Health 2019; 110: 520-522</li> <li>✓ Follow up project underway</li> </ul>
Elizabeth Kemigisha	Mbarara, Uganda	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	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Published: Can J Public Health 2016; 109: e486-7</li> <li>✓ Presented to Healthy Child Uganda and local health authority</li> </ul>
Paul Mang'oli	Nairobi, Kenya	Ponseti clubfoot management: experience with the Steenbeek Foot Abduction Brace.	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Published: Pediatrics &amp; Child Health 2014;19:513-5</li> <li>✓ Letter to editor reply: Pediatrics &amp; Child Health 2015;20:148</li> <li>✓ Presented to local health authority and Kijaibe Hospital</li> </ul>



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

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

*MR participants 2013*



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

Team Lead	MR Site	Project title	Project update
Girma Mulisa	Addis Ababa, Ethiopia	Tuberculosis Drug Resistance and Risk Factors among Presumptive Cases in Oromia Region, Ethiopia	<ul style="list-style-type: none"> <li>✓ Received external funding</li> <li>✓ Project completed</li> <li>✓ Published: Int J Infect Dis. 2015;39:57-61</li> <li>✓ Presented to local health authority Oromia Region</li> </ul>
Florence Beinempaka	Mbarara, Uganda	Traditional rituals and customs for pregnant women in selected villages in southwest Uganda	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Published Journal of Obs and Gyne of Canada 2015; 37(10):899–900</li> <li>✓ Presented to School of Nursing MUST</li> </ul>
Beebwa Esther	Mbarara, Uganda	The role of community health nursing in identifying the health needs of women and children in Katete cell- Mbarara municipality, Uganda	<ul style="list-style-type: none"> <li>✓ Project complete</li> <li>✓ Presented at two conferences at MUST</li> <li>✓ Published International Journal of Africa Nursing Sciences 2021; Vol 15</li> <li>✓ KT project submitted</li> </ul>
Jomo Hector Chilenga Banda	Blantyre, Malawi	Determining the prevalence of polyparasitism and association with anaemia in febrile under-five children at a health facility in Chikwawa, Malawi.	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Report submitted to MicroResearch</li> <li>✓ Article being prepared for publication</li> </ul>
Teddy Kyomuhangi	Mbarara, Uganda	The contribution to mothers’ health by village health team promotion practices: A case study of Kyabugimbi subcounty Bushenyi District.	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Published: Can J Public Health 2015; 106: e 565</li> </ul>

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

*MR participant 2015*



Team Lead	MR Site	Project title	Project update
David Ayebare Santson	Mbarara, Uganda	Cervical cancer screening uptake: a case study of Sheema district, rural south western Uganda	<ul style="list-style-type: none"> <li>✓ Project complete</li> <li>✓ Presented at MUST Scientific Conference, Nov 2019</li> <li>✓ Paper under review</li> </ul>
Paul Gonza	Makerere, Uganada	Cascade from enrollment into care to viral suppression, women enrolled into the option B+ in a large HIV program in Uganda: Describing factor associated with lost-to- follow up and virologic outcomes and understanding barriers to retention	<ul style="list-style-type: none"> <li>✓ Project complete</li> <li>✓ Preliminary results shared with Mildmay Hospital team</li> <li>✓ Working on manuscript</li> </ul>
Abaasa Catherine	Mbarara, Uganda	Factors Affecting Nutritional Status Among Children Aged 1-5 Years In Buhweju District, South Western Uganda	<ul style="list-style-type: none"> <li>✓ Project complete</li> <li>✓ Presented at MUST Annual Scientific Conference, Nov 2019</li> <li>✓ Manuscript submitted for publication</li> <li>✓ KT proposal under review</li> </ul>
Anthony Makhoba	Nsambya, Uganda	Impact of Routine Screening for Hepatitis B Viral Infection in Pregnancy in a resource Limited setting.	<ul style="list-style-type: none"> <li>✓ Project complete</li> <li>✓ Manuscript under review</li> </ul>
Tumuhimbise Manasseh and Beatrice Akello	Mbarara, Uganda	Challenges to Complimentary Feeding among Children below 2 Years in Gweri Sub-county Soroti District in Uganda	<ul style="list-style-type: none"> <li>✓ Project complete</li> <li>✓ Manuscript completed</li> <li>✓ Paper in preparation</li> </ul>
Elizabeth Kemigisha		Assessing sexual practices and contraceptive use among adolescents 15-19 years in a refugee settlement in Uganda	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Published Reproductive Health 2019;16(35)</li> </ul>
Sifora Fanta Chaleabo	Kabarak, Kenya	Perceived Factors Influencing Adherence to SOPs among Laboratory Personnel in Bomet County, Kenya	<ul style="list-style-type: none"> <li>✓ Project complete</li> <li>✓ Project presented at MR Forum 2021</li> </ul>
Janeth Bulemela	Ifakara, Tanzania	Health related quality of life in children and youth with Type 1 diabetes living in Southern East and Highlands Tanzania	<ul style="list-style-type: none"> <li>✓ Project complete</li> <li>✓ Published ASPAE 2023;1(1)</li> </ul>
Natuhwera Calorine	Mbarara, Uganda	Exploring knowledge, experiences and challenges in handling menstruation among adolescents with disabilities, a qualitative study.	<ul style="list-style-type: none"> <li>✓ Project complete</li> <li>✓ Working on manuscript and final report</li> <li>✓ KT project submitted to MR</li> </ul>

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

*MR Participant 2017*

Team Lead	MR Site	Project title	Project update
Katusiime Beatrice	Mbarara, Uganda	Prevalence and risk factors of self-medication among breast feeding mothers in Mbarara municipality	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Working on final report and manuscript</li> </ul>
Juvenal Nambaje	Kigali, Rwanda	Perceptions of women with NCDs on birth control and pre-pregnancy counselling in Rwanda.	<ul style="list-style-type: none"> <li>✓ Project complete</li> <li>✓ Manuscript and final report under preparation</li> </ul>
Jean Pierre Gafaranga	Kigali, Rwanda	Why do Rwandan women not go for cervical cancer screening?	<ul style="list-style-type: none"> <li>✓ Project complete</li> <li>✓ Presented project at MR Forum 2021</li> <li>✓ Published: 2022 Int Jour Women's Health, DOI: 10.2147/IJWH.S374487</li> </ul>
Kalpana Sharma	Chitwan, Nepal	Knowledge, Attitude and Practice Regarding Cervical Cancer and Its Screening among Women in Madi, Chitwan, Nepal	<ul style="list-style-type: none"> <li>✓ Project complete</li> <li>✓ Preparing manuscript and final report</li> </ul>
Taremwa Ivan Mugisha	Mbarara, Uganda	Factors affecting the uptake of malaria prevention strategies among pregnant women	<ul style="list-style-type: none"> <li>✓ Project complete</li> <li>✓ Manuscript in review</li> </ul>
Kanyesigye Hamson	Mbarara, Uganda	Assessment of intrapartum referrals and use of mobile phone technology to improve maternal-fetal outcomes in South Western Uganda	<ul style="list-style-type: none"> <li>✓ Project complete</li> <li>✓ Two manuscripts under review</li> </ul>
Taremwa Ivan Mugisha	Mbarara, Uganda	Social and Psychological impact of the COVID-19 pandemic in selected communities in Mbarara municipality south western Uganda	<ul style="list-style-type: none"> <li>✓ Project complete</li> <li>✓ Report submitted to MR</li> <li>✓ Published: Psychological Research Behavioral Management DOI: 10.2147/PRBM.S399687</li> </ul>
Agatha Nshabohurira	Mbarara, Uganda	Factors influencing low uptake of DPT3 among infants aged 16 to 52 weeks in Rubirizi Town, Uganda	<ul style="list-style-type: none"> <li>✓ Project complete</li> <li>✓ Report in preparation</li> </ul>



*MicroResearch Workshop at Medical College, Nepal 2017; MicroResearch Workshop at KABU, 2017*

## Ongoing MicroResearch Projects

	MR Site	Project Description
<p><b>Practices of mothers managing colic among infants in Nyarubungo Village, Uganda</b></p> <p>Lead: Peter Nuwagira</p> <p>Status: ✓ Project underway</p>	Mbarara, Uganda	The applicants propose to carry out an exploratory descriptive study to determine how mothers manage colic among their infants in a village setting in Nyarubungo parish in south west Uganda. Colic is a very common phenomenon but little is known about management in this rural setting. 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.
<p><b>Exploring the causes of delayed discharge process at the Nairobi Hospital, Kenya</b></p> <p>Lead: Nebert Kiguhe Mchidi</p> <p>Status: ✓ Conducting data analysis ✓ Working on manuscript</p>	Nairobi, 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.
<p><b>Psychosocial Challenges among Caregivers of Children with disabilities in Southwestern Uganda</b></p> <p>Lead: Mutatina Robens</p> <p>Status: ✓ Data analysis complete ✓ Working on final report</p>	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. 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.
<p><b>How do Rwandan women and men attending antenatal care want to learn about family planning?</b></p> <p>Lead: Polyphile Ntihinyurwa</p> <p>Status: ✓ Data analysis completed ✓ Working on final report</p>	Kigali, Rwanda	Worldwide, the use of family planning (FP) is estimated at 57.4% and 28% in Africa. Current data show that family planning alone has a direct impact on decreasing the global maternal mortality by 30% and neonatal mortality by 10% each year. Whether the community would prefer a specific mode of education and conviction towards FP methods, especially in middle and low income countries, has not been documented. This study will explore how do Rwandan women and men attending antenatal care want to learn about family planning
<p><b>CT scan request in management of paediatric head injury at Kigali University Teaching Hospital Emergency Department, Rwanda</b></p> <p>Team lead: Mbanjumucyo Gabin</p> <p>Status: ✓ Provisional approval</p>	Kigali, Rwanda	CT Scan use in pediatric is still controversial and with most pediatric injuries being mild not needing neurosurgical intervention. Clinical decision rules have been developed to reduce radiation exposure to the pediatric population. Pediatric emergency care applied research network (PECARN) is validated and preferred in low resource settings. This study aims at assessing if CT scan requests in pediatric head injury are following PECARN rules.

	<b>MR Site</b>	<b>Project Description</b>
<p><b>Factors that influence false tooth extraction among children below two years in Isingiro, southwestern Uganda.</b></p> <p>Lead: Elizabeth Najjingo</p> <p>Status</p> <ul style="list-style-type: none"> <li>✓ Data analysis complete</li> <li>✓ Working on final manuscript</li> </ul>	Mbarara, Uganda	False tooth extraction, the removal of deciduous primary canine tooth buds among infants below 2 years of age, has been practiced amongst communities in East Africa, Ethiopia and Sudan for over six decades. This procedure, done in the community by traditional healers, involves unsterilized tools, such as bicycle spokes, needles, knives or finger nails etc., putting the child at risk of acquiring blood borne infections and the bleeding may lead to death from shock and anemia as well as sepsis and tetanus infections. This study will determine the factors that influence false tooth extraction in southwestern Uganda
<p><b>Factors associated with non-adherence to medications among Adolescents with common mental disorders at Mbarara Regional Referral Hospital</b></p> <p>Lead: Gideon Robert Odendi</p> <p>Status</p> <ul style="list-style-type: none"> <li>✓ Project underway</li> </ul>	Mbarara, Uganda	Mental health problems can affect at any age. Ten to twenty percent of youth in the world are affected by mental health problems, with the majority in low resourced countries, like Uganda. Failure to adhere to prescribed medicines can result in delayed response, reoccurrence of symptoms, and increased cost of overall treatment. The questions as proposed in this project: [1] What is the prevalence of non-adherence to medications among adolescents with common mental disorders at Mbarara Regional Referral Hospital? [2] What factors are associated with non-adherence?
<p><b>Prevalence of obesity and associated factors among primary school going children in Mbarara Municipality, Southwestern Uganda</b></p> <p>Lead: Timothy Nduhukire</p> <p>Status</p> <ul style="list-style-type: none"> <li>✓ Data collection complete</li> <li>✓ Data analysis underway</li> </ul>	Mbarara, Uganda	Obesity is an increasing recognized health problem that now ranks as the fifth leading global risk for mortality. that policy makers are aware of the burden of obesity and its associated factors. Not much data is available in Uganda. This study seeks to obtain local obesity data among primary school going children in Mbarara Municipality, South Western Uganda and also examine factors that are associated with obesity in this setting.
<p><b>Uptake of HIV Testing Services through Assisted Partner Notification (APN) among Men</b></p> <p>Lead: Simons Ezajobo</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Data analysis complete</li> <li>✓ Working on final report</li> </ul>	Mildmay, Kampala, Uganda	The 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 testing to expected target of more than 95% among the men. The main objective of this project is to assess the uptake of HIV Testing services among men through APN.



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

	MR Site	Project Description
<p><b>Clients' knowledge and compliance towards hypertension management among adults living with HIV attending Entebbe and Mildmay Uganda hospital</b></p> <p>Lead: Carolyne Namayanja</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Project approved</li> <li>✓ Received ethics approval</li> <li>✓ Project presented at MR Forum 2022</li> </ul>	Mildmay, Kampala, Uganda	<p>Hypertension (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.</p>
<p><b>Barriers and facilitators of access to Hepatitis B services among women of reproductive age in Bidibidi refugee settlement in Northern Uganda</b></p> <p>Lead: Emmanuel Omony</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Project approved</li> <li>✓ Seeking ethics approval</li> </ul>	Mildmay, Kampala, Uganda	<p>This study will investigate the barriers and facilitators to accessing Hepatitis B services among women of reproductive age in Bidibidi refugee settlement in Uganda. Not all women who need 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 records to identify the burden of Hepatitis B among women of reproductive age. This will be followed by qualitative data collection through interviews and focus groups.</p>
<p><b>Anti-Retroviral Therapy (ART) adherence among adolescents attending boarding secondary schools in Sheema District, Uganda</b></p> <p>Lead: Derrick Komwangi</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Provisional approval</li> </ul>	Mbarara, Uganda	<p>Adherence to antiretroviral therapy (ART) has been reported to be sub-optimal among adolescents with HIV (ALHIV) in boarding secondary schools due to fear of unintended disclosure and associated stigma. Using a phenomenological exploratory cross-sectional design employing both quantitative and qualitative data collection methods, this study seeks to determine ART adherence level and explore the lived experiences of ALHIV attending boarding secondary schools to contribute towards improve ART related health outcomes in this vulnerable population.</p>

***“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.”***

*MR participants 2018*

	<b>MR Site</b>	<b>Project Description</b>
<p><b>Voices of adolescents in schools regarding the COVID pandemic and prevention measures: A qualitative study</b></p> <p>Lead: Elizabeth Kemigisha</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Project complete</li> <li>✓ Presented preliminary results at UPA, 2020</li> <li>✓ Presented project at MR Forum 2021</li> <li>✓ Manuscript submitted</li> </ul>	<p>Mbarara, Uganda</p>	<p>The COVID-19 pandemic has resulted in the closure of schools, public transport and no public gatherings in Uganda. School age children have been affected with interruption in learning. This is a concern in a country such as Uganda where school completion rates are low with drop outs at the beginning of adolescence period in primary school. The Ministry of Education has been proactive in substituting the lost school time with media based learning through television, radio and print media. It is not clear as yet how adolescents perceive this alternative kind of education, whether the target population has been reached and is actively participating. This study seeks to explore adolescent experiences during the pandemic and lockdown and how these events have affected their learning and learning expectations.</p>
<p><b>Experiences of caregivers of children with cerebral palsy attending Ruharo Mission Hospital in South Western Uganda</b></p> <p>Lead: Justus Asasira</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Project approved</li> <li>✓ Seeking ethics approval</li> </ul>	<p>Mbarara, Uganda</p>	<p>This project focuses on understanding the lived experiences of caregivers of children with neuro developmental complication in this case Cerebral Palsy in South-western Uganda. The study will focus on the primary caregivers who have lived with the child for at least 6months attending to Ruharo Mission Hospital in Uganda. There are few studies that have studied this group of caregivers in local context to understand their copying mechanisms at community level and how these could be scaled up and modified to inspire others involved in care.</p>
<p><b>Determinants of intimate partner violence disclosure among pregnant women in forcibly displaced settlements during COVID-19 pandemic in Kasese District</b></p> <p>Lead: David Ayebare Santson</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Data collection complete</li> <li>✓ Data analysis underway</li> </ul>	<p>Mbarara, Uganda</p>	<p>Intimate partner violence (IPV) during pregnancy is causing high mortality among pregnant women and still births in sub-Saharan Africa (SSA). 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.</p>

	MR Site	Project Description
<p><b>Factors associated with early discharge of pre-term babies in Southwestern Uganda: A qualitative study</b></p> <p>Lead: Stella Kyoyagala</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Project approved</li> <li>✓ Ethics approval</li> <li>✓ Starting data collection</li> </ul>	Mbarara, Uganda	<p>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. 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.</p>
<p><b>Exploring the nutrition challenges and their associated health outcomes experienced by communities in Mbarara, Uganda during the COVID-19 Pandemic</b></p> <p>Lead: Catherine Abaasa</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Provisional approval</li> <li>✓ Presented project at MR Forum 2021</li> </ul>	Mbarara, Uganda	<p>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. 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.</p>
<p><b>Knowledge and practices of COVID preventive measures among secondary school teachers in public school within Lilongwe City, Malawi</b></p> <p>Lead: George Mwenye-Phiri</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Presented project at MR Forum 2021</li> <li>✓ Manuscript in preparation</li> </ul>	Mangochi, Malawi	<p>Within Malawi's education system, teachers are regarded as source of information and are at the center of influencing behaviours of their learners as well as their communities. research study aims to explore knowledge and practices of COVID preventive measures among secondary school teachers in public schools within Lilongwe city, Malawi. It will add to the existing knowledge about the proportion of teachers with knowledge of COVID-19 vaccines and if teachers are vaccine hesitant or want forward with it and if they are able to teach learners in COVID preventive measures in schools.</p>



*MicroResearch Workshop at Mildmay Uganda, 2019*





*MicroResearch Workshop in Mangochi, Malawi – February, 2021*

	<b>MR Site</b>	<b>Project Description</b>
<p><b>Enablers and barriers to adherence to newly introduced oral treatment resistant tuberculosis in Mangochi District, Malawi</b></p> <p>Lead: Michael Chifundo Manong'a</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Presented project at MR Forum 2021</li> <li>✓ Manuscript in preparation</li> <li>✓ Presented at Kamuzu University of Health Sciences research conference</li> </ul>	<p>Mangochi, Malawi</p>	<p>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.</p>
<p><b>Exploring contributing factors to birth asphyxia: A case of Mangochi District Hospital, Malawi</b></p> <p>Lead: Wilford Kamanula</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Manuscript in preparation</li> <li>✓ Presented at Kamuzu University of Health Sciences research conference</li> </ul>	<p>Mangochi, Malawi</p>	<p>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.</p>

	<b>MR Site</b>	<b>Project Description</b>
<p><b>Stigma associated with infectious diseases among health care workers: A case of COVID-19 in Mangochi, Malawi</b></p> <p>Lead: Ezekiel Kadango</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Project underway</li> <li>✓ Presented at Kamuzu University of Health Sciences research conference</li> <li>✓ Presented at 2023 MR Virtual Forum</li> </ul>	Mangochi, Malawi	Evidence from literature is not clear as to whether health care workers in Mangochi Malawi face Covid 19 related stigma or not as has been reported in other countries. Therefore, this project will 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.
<p><b>Factors associated with relapse among patients with severe mental illness in Kampala</b></p> <p>PTL: Bives Mutume</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Project approved</li> <li>✓ Seeking ethics approval</li> <li>✓ Presented project at MR Forum 2021</li> </ul>	Kampala, Uganda	Relapse among patients with severe mental disorders is a major concern associated with increased burden in terms of morbidity, mortality and treatment costs. Factors affecting relapse and readmission rates are heterogeneous and need to be identified to better allocate resources for improved outcomes among patients with mental illness. Despite the challenges associated with relapse among patients with mental illness at individual and family levels, research studies linking associated factors and relapse in mental disorders in Uganda are sparse. This study is aimed to determine the factors associated with relapse among patients with severe mental disorders in southwestern Uganda.
<p><b>Male involvement in menstrual health and hygiene in Mbarara District, Uganda</b></p> <p>Lead: Evas Nimusiima</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Data analysis complete</li> <li>✓ Preparing final report</li> </ul>	Mbarara, Uganda	Limited effort has been done to promote the involvement of men and boys in menstruation and menstrual health hygiene yet by roles and responsibilities attributed to being a man, it is known that men and boys have the potential to 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.
<p><b>Healthcare providers' experiences influencing attendance of ANC services during COVID-19 lockdown period at healthcare centres in Kabale, Uganda</b></p> <p>Lead: Keneth Iceland Kasozi</p> <p>Status:</p> <p>Under review</p>	Kabale, Uganda	The project will involve healthcare workers working at healthcare centres in Uganda. In particular, the project leaders will acquire information related to their experiences during the previous and current covid lockdown in Uganda to identify opportunities and challenges associated with covid19 at the antenatal care clinics at health centre IVs in Kabale districts. Close to no study has been conducted in developing countries, yet healthcare workers have been reported to be suffering from anxiety and mental stress while working in an environment where their colleagues are dying from the pandemic.

	MR Site	Project Description
<p><b>Psychological distress and its associated factors among health workers in South Western Uganda following Ebola virus disease outbreak</b></p> <p>PTL: Joan Abaatyo</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Project complete</li> <li>✓ Two manuscripts under review</li> </ul>	Mbarara, Uganda	<p>Uganda has so far had 5 Ebola Virus Disease (EVD) outbreaks with major impact on the western and central regions of Uganda. This 2022 on-going outbreak, which started in September 2022, is occurring at a time when Uganda is still battling the social and psychological challenges COVID-19 pandemic. Health workers are greatly overwhelmed and hence are at a much higher risk of developing psychological distress, which can impair work productivity of health workers; posing a danger to themselves, their colleagues, family and the general public, hence predisposing them to other mental health problems in the future. This study will provide evidence on prevalence and factors associated with psychological distress among health workers in Uganda with the 2022 EVD outbreak in Uganda.</p>
<p><b>Knowledge and attitude of university students towards the use of telemedicine to access sexual and reproductive health services in Mbarara Uganda</b></p> <p>PTL: Richard Tuhairwe</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Project approved</li> <li>✓ Applying for ethics approval</li> </ul>	Mbarara, Uganda	<p>Telemedicine is the use of information and communication technologies in diagnosis, treatment and care of patients away where the provider and patient are in a different location. This has been found to offer a very fundamental supplement to the healthcare delivery and access especially among the youth and university students who are more familiar with information and communication technologies. However, many factors including the user's knowledge and attitude influence the adoption and its use. This project will look at the potential use of telemedicine in Uganda among University students, their knowledge and attitude towards telemedicine and associated factors need to be ascertained.</p>
<p><b>Preparedness of private health workers in Mbarara City about identifying and managing Ebola outbreaks</b></p> <p>PTL: Alain Favina</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Project approved</li> <li>✓ Ethics approval</li> <li>✓ Applying for national science board approval</li> </ul>	Mbarara, Uganda	<p>Ebola virus disease is one of the deadliest diseases affecting humans with a high mortality rate among health workers. Therefore, questions about the level of preparedness, the knowledge, and attitudes of health workers, especially in private health facilities, can be raised. This project aims to determine the level of preparedness for an Ebola outbreak by health workers in private clinics in Mbarara City and to identify the gaps that need to be filled in terms of knowledge, attitude, practice, and resources needed by health workers and health facilities to control the outbreak.</p>



*Judges at the Malawi workshop – February, 2021*

	MR Site	Project Description
<p><b>Readiness of health facilities to diagnose, manage and prevent the Ebola epidemic in South western Uganda</b></p> <p>PTL: Sserunkuuma Jonathan</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Provisional approval</li> <li>✓ Working on revisions</li> <li>✓ Presented at 2023 MR Virtual Forum</li> </ul>	Mbarara, Uganda	The United Nations developed an Ebola virus disease (EVD) preparedness and readiness plan to assist nine countries to advance their critical preparedness measures implemented in Uganda between 2018 and 2019 and was deemed a success. This follow up study will utilize cross-sectional mixed methods study to employ both qualitative and quantitative methods to assess the capacity and readiness of primary healthcare centers to diagnose and manage Ebola virus Disease in South Western Uganda.
<p><b>Barriers and facilitators of access of mental health services during an Ebola virus disease outbreak in Uganda</b></p> <p>PTL: Mutume Bives</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Provisional approval</li> <li>✓ Working on revisions</li> </ul>	Mbarara, Uganda	Public health emergencies including Ebola virus disease (EVD) outbreak result not only into the development of mental health problems such depression, anxiety among community members, but also disrupt the access to mental healthcare services in the affected areas. Measures such as lockdown, social distance and the fear of being diagnosed for EVD impair the access to needed health care services by patients with mental disorders. Hence this study is aimed to identify the barriers and facilitators influencing the access to healthcare services among adults with mental disorders during an EVD outbreak in Mubende. It will provide insight into the factors associated with access of mental health services during an EVD; as well as to inform policy markers about knowledge, attitude and perceptions of patients about the provision of mental health services in EVD outbreaks.
<p><b>Depression among pregnant teenagers receiving antenatal care from health facilities in Mbarara city, Southwestern Uganda</b></p> <p>PTL: Muwanguzi Moses</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Full approval</li> <li>✓ Applying for ethics approval</li> </ul>	Mbarara, Uganda	Depression in teenage pregnancy is a serious mental health condition characterized by persistent feelings of sadness, hopelessness, or low mood. It affects majority of pregnant teenagers (compared to older pregnant women) especially in low-income countries like Uganda. Pregnant teenagers face many problems like stigma, abuse, intimate partner violence which may predispose them to depression. This further results into maternal (substance abuse, suicidality) and fetal complications (fetal growth retardation, prematurity). This study therefore will determine the prevalence of depression and its associated factors among pregnant teenagers receiving antenatal care services at selected healthcare facilities in Mbarara city, southwestern Uganda.

***"To be grounded in evidence based social research with focus on identifying the practical challenges and issues the vulnerable go through and be able to address the real underlying issues to transform society."***

MR Participant 2023

	MR Site	Project Description
<p><b>Lived Experiences of Teenage Mothers Attending Mbarara Regional Referral Hospital: A Phenomenological Approach</b></p> <p>PTL: Ayebazibwe Alex Kakama</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Provisional approval</li> <li>✓ Revisions underway</li> </ul>	Mbarara, Uganda	In spite of the implementation of various policies and guidelines on adolescent reproductive health services, there is continued lack of teenager-friendly healthcare services in Uganda. In addition, there is low utilisation of antenatal, delivery and postnatal care services by adolescents. Uganda has a high teenage pregnancy rate of 25%, compared to the global rate of 14%. Previous research has shown that there are no teenager-friendly antenatal services in Mbarara municipality. Using qualitative research methods, this study seeks to explore and document lived experiences of teenage mothers that attended antenatal and maternity services at Mbarara Regional Referral Hospital, western Uganda
<p><b>Experiences of Patients with Sickle Cell Disease and their Caregivers at Bundibugyo General Hospital</b></p> <p>PTL: Adong Hope Grace</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Provisional approval</li> <li>✓ Revisions underway</li> <li>✓ Presented at 2023 MR Virtual Forum</li> </ul>	Mbarara, Uganda	There are untold stories of the experiences of patients and caregivers of patients with sickle cell disease (SCD). With the potential for increase in incidence of SCD and the associated negative impacts to the individual, the society and the country at large, this study which is going to explore the experiences of patients and caregivers of patients with SCD which will create a platform for developing interventional strategies. This study will provide information for health workers and social workers which will guide their initiatives for patient care and management.
<p><b>Acceptability of Sickle Cell Trait Screening among Adolescents aged 15 to 19 years in Lira District, Northern Uganda</b></p> <p>PTL: Raymond Otim</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Provisional approval</li> <li>✓ Revisions underway</li> <li>✓ Presented at 2023 MR Virtual Forum</li> </ul>	Mbarara, Uganda	Sickle cell disease (SCD) is a genetic blood disorder that affects a significant number of newborns globally even in Uganda each year, and limited access to healthcare services exacerbates this problem. This study aims to determine the acceptance of and factors that influence sickle cell trait (SCT) screening among adolescents aged 15-19 years in Ogur Sub County Lira District, Northern Uganda.
<p><b>The Effect of Economic Insecurity on Mental Health Among the Youth in Meru County, Kenya</b></p> <p>PTL: Jacob Oketch Okungu</p> <p>Status:</p> <ul style="list-style-type: none"> <li>✓ Under review</li> </ul>	Meru, Kenya	The study will adopt a mixed study design to explore the effect of economic insecurity on mental health among youth in Meru County, Kenya. The quantitative design will be observational and particularly cross-sectional in order to give breadth and an in-depth understanding of the effects of economic insecurity on mental health among the youth in Meru County. Qualitative design will be phenomenological to give a clear understanding of the youths' experience and the prevalence of mental health in the County.

<p><b>Factors contributing to the widespread use of marijuana (<i>cannabis sativa</i>) among college students in Meru County</b></p>	<p>Meru, Kenya</p>	<p>The use of marijuana, also known as cannabis, is illegal in Kenya and is classified as a dangerous drug under the country's drug laws. Despite this, its use is still prevalent in some communities in Kenya, primarily for recreational purposes. The study will focus on college students of adult age, who are thought to have the highest initiation rate of marijuana use. Results and information generated from this study will be used to shape the drug use mitigation strategies. The findings of this study will also be instrumental in advising policymakers on ways to control the widespread consumption of marijuana.</p>
<p>PTL: Grace Gakii Muthuri</p>		
<p>Status:          ✓ Under review          ✓ Presented at 2023 MR Virtual Forum</p>		
<p><b>Individual Birth Plan (IBP) knowledge among pregnant women in Igembe Central Sub-County, Meru County, Kenya</b></p>	<p>Meru, Kenya</p>	<p>Individual Birth Plans (IBPs) are provided as part of focused antenatal care clinic (ANC) services in Kenya, although the proportion of women attending ANC in this nation, as well as others in Eastern Africa, remains low. Kenya's Maternal Mortality Rate (MMR) is estimated at 362 deaths per 100,000 live births, which is considered very high. This is partly attributed to inadequate birth and emergency preparedness, including the IBP. Therefore, this study aims to assess knowledge of IBP among pregnant women attending ANC in Igembe Central Sub-County, Meru County, Kenya.</p>
<p>PTL: Samuel Njeru</p>		
<p>Status:          ✓ Under review          ✓ Presented at 2023 MR Virtual Forum</p>		
<p><b>Determinants of consumption of selected African traditional vegetables for iron and folic acid supplementation among pregnant women in Tigania West Constituency, Meru County</b></p>	<p>Meru, Kenya</p>	<p>The research will attempt to answer the question on determinants of consumption of African indigenous vegetables for iron and folic acid supplementation among pregnant women in Tigania West Constituency of Meru County, Kenya. Background information - the high nutritive value of most African indigenous vegetables can eliminate iron and folic acid deficiency among pregnant women. These vegetables are the only natural source of iron and folic acid. Study site - the study will be conducted in Tigania West Constituency of Meru County, Kenya.</p>
<p>PTL: Rosemary Mwendu</p>		
<p>Status:          ✓ Under review</p>		



Participants at MR Virtual Workshops for Meru University of Science and Technology, January 2023 and Mbarara University of Science and Technology, February 2023

	MR Site	Project Description
<p><b>Mother-Infant Bonding Disorders, Postpartum Depression and Maternal Self-Esteem in Mothers of Low-Birth-Weight Neonates in Kigali, Rwanda</b></p> <p>PTL: Jean Pierre Gagaranga</p> <p>Status: ✓ Under review</p>	Kigali, Rwanda	This study aims at determining the prevalence of mother-infant bonding disorders, post-partum depressive symptoms and self-esteem in mothers of low-birth-weight neonates delivering at University Teaching Hospital of Kigali (CHUK). We will conduct a structured interview with mothers of low birth weight neonates using questionnaire. Standardized clinical instruments will be used to measure variables; the Postpartum Bonding Questionnaire, the Edinburgh Postnatal Depression Scale and the Rosenberg Self-Esteem Scale.
<p><b>Evaluating Socio-Cultural Barriers to Breast Cancer Treatment Among Women in Kisii County</b></p> <p>PTL: Samuel Mong'are</p> <p>Status: ✓ Under review</p>	Kisii, Kenya	The overarching goal of this study is to systematically identify, analyze, and comprehensively understand the socio-cultural barriers that impede access to and utilization of breast cancer treatment among women in Kisii County. Through a rigorous exploration of local perspectives, beliefs, and practices, this study aims to uncover critical insights that can inform targeted interventions, policy recommendations, and community-based strategies to enhance breast cancer awareness, early detection, and treatment adherence, ultimately contributing to improved health outcomes.
<p><b>Theater-Based HIV Prevention Intervention For the Youth in Kisii County</b></p> <p>PTL: Evans Mecha Gesura</p> <p>Status: ✓ Provisional approval</p>	Kisii, Kenya	The proposed project seeks to engage students in Kisii Township through interactive plays addressing HIV prevention and related issues. With a multidisciplinary team of actors drawn from Kisii university, scriptwriters, and community outreach coordinators, the project aims to empower youth by imparting culturally relevant knowledge and promoting responsible sexual behavior.
<p><b>Use of Telehealth to Improve Timely Quality Care In Type 2 Diabetes</b></p> <p>PTL: Zillah Moraa Malachi</p> <p>Status: ✓ Provisional approval</p>	Kisii, Kenya	Management of Type-2 Diabetes Mellitus (T2DM) demands that individuals know what to do and what not to do in terms of blood sugar levels, diet and medication. However, this may be hindered by challenges such as age, knowledge on the particular medical condition, self-perception among others. The project will investigate the factors that hinder timely access to diabetic medical care and to develop a telehealth messaging/voice call center.
<p><b>Engaging Community Paralegals in Referral Pathways for Sexual Gender-Based Violence among Girls in Kisii County</b></p> <p>PTL: Peter Gutwa Oino</p> <p>Status: ✓ Under review</p>	Kisii, Kenya	In this project, community paralegals are grassroots community health promoters/advocates, trained in basic law, mediation, organizing, education and advocacy that form a dynamic, creative frontline of formal and informal justice systems in advancing prevention of Sexual Gender-Based Violence (SGBV) and seeking community-led solutions to instances of SGBV among girls. Theory of Change and mixed-method research design will guide the research to analyse how community paralegals are engaged in referral pathways for GBV/SGBV cases in Kisii County.



## MicroResearch Knowledge Translation Projects

Team Lead	MR Site	Project title	Project update
Isha Grant	Makerere, Uganda	Use of Knowledge Translation principles and exchange to disseminate results of newborn death audits to Luwero District Health Team	<ul style="list-style-type: none"> <li>✓ Project completed</li> <li>✓ Report given to Ministry of Health in Uganda</li> <li>✓ MOH has changed policy based upon this</li> <li>✓ Chlorhexidine gel now locally manufactured and distributed in “Mama packs”</li> </ul>
Taremwa Ivan Mugisha	Mbarara, Uganda	Knowledge, attitude and behaviour towards the use of insecticide treated mosquito nets among pregnant women and children in rural southwestern Uganda	<ul style="list-style-type: none"> <li>✓ KT project complete</li> <li>✓ Published: Health Psychology and Behavioral Medicine. 2020 Jan 1;8(1):383-97</li> </ul>
Catherine Abaasa	Mbarara, Uganda	Healthcare providers and Caregivers’ perspectives on factors underlying the persistent malnutrition of in Buhweju district, southwestern Uganda	<ul style="list-style-type: none"> <li>✓ KT project underway</li> <li>✓ Presented project at MR Forum 2021</li> </ul>
Elizabeth Kemigisha	Mbarara, Uganda	Evaluation of a short menstrual hygiene training among adolescent girls in Nakivale refugee settlement	<ul style="list-style-type: none"> <li>✓ Project presented at MR Forum 2021</li> <li>✓ Final activities planned for July 2023</li> </ul>
Calorine Natuhwera	Mbarara, Uganda	Knowledge, experiences, challenges faced by adolescents with disabilities in handling menstruation and forms of support by caregivers in Mbarara District, Uganda	<ul style="list-style-type: none"> <li>✓ Project underway</li> <li>✓ Project presented at MR Forum 2021</li> </ul>
Esther Beebwa	Mbarara, Uganda	The role of community health nursing in identifying needs of women and children under five years in Katete, Mbarara, Uganda	<ul style="list-style-type: none"> <li>✓ Project underway</li> <li>✓ Project presented at MR Forum 2022</li> </ul>

***“MicroResearch was eye opening, and I am positive that it will change my life.”***

***“MicroResearch can change attitudes and perceptions.”***

*MR Participants 2017*



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

### **Other MicroResearch Activities:**

#### **MicroResearch-based Thesis Workshop Kabarak University, Kenya - May 2017**

<b>Student</b>	<b>Program</b>	<b>Proposed Thesis Topic</b>	<b>Project Update</b>
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)	<ul style="list-style-type: none"> <li>✓ Completed</li> <li>✓ Passed thesis defense</li> <li>✓ Published in Kabarak University (KABU) journal</li> </ul>
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?	<ul style="list-style-type: none"> <li>✓ Completed</li> <li>✓ Passed thesis defense</li> <li>✓ Published in KABU journal</li> </ul>
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?	<ul style="list-style-type: none"> <li>✓ Completed</li> <li>✓ Passed thesis defense</li> <li>✓ Published in KABU journal</li> </ul>
Faith Lelei-Mailu	Fam Med	How prepared do family members feel they are to provide end of life care for their advanced cancer patients?	<ul style="list-style-type: none"> <li>✓ Completed</li> <li>✓ Passed thesis defense</li> <li>✓ Published in KABU journal</li> </ul>
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?	<ul style="list-style-type: none"> <li>✓ Completed</li> <li>✓ Passed thesis defense</li> <li>✓ Published in KABU journal</li> </ul>



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

## MicroResearch-based Thesis Workshop Kabarak University, Kenya – May, 2018

Student	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?	<ul style="list-style-type: none"> <li>✓ Completed</li> <li>✓ Passed thesis defense</li> <li>✓ Published in Kabarak University (KABU) journal</li> </ul>
Sarah Kiptinness	Fam Med	How effective is universal screening compared to selective risk factor-based screening for gestational diabetes at Kijabe Hospital?	<ul style="list-style-type: none"> <li>✓ Completed</li> <li>✓ Passed thesis defense</li> <li>✓ Published in KABU journal</li> </ul>
Hillary Kositany	Fam Med	What are the reasons for the timing of first antenatal visit among women at Temek Hospital?	<ul style="list-style-type: none"> <li>✓ Completed</li> <li>✓ Passed thesis defense</li> <li>✓ Published in KABU journal</li> </ul>
Bramwel Wekesa	Fam Med	What is the adequacy of informed consent for elective cesarean section for women presenting at Kijabe Hospital?	<ul style="list-style-type: none"> <li>✓ Completed</li> <li>✓ Passed thesis defense</li> </ul>
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?	<ul style="list-style-type: none"> <li>✓ Completed</li> <li>✓ Passed thesis defense</li> <li>✓ Published in KABU journal</li> </ul>
Gad Igiraneza	Fam Med	What are the Opinions and understanding of vasectomy among married men in Chogoria, Tharaka Nithi County Kenya?	<ul style="list-style-type: none"> <li>✓ Completed</li> <li>✓ Passed thesis defense</li> <li>✓ Published in KABU journal</li> </ul>
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?	<ul style="list-style-type: none"> <li>✓ Completed</li> <li>✓ Passed thesis defense</li> <li>✓ Published in KABU journal</li> </ul>
Caroline Chepngeno	Nutrition	What are the risk factors of metabolic syndrome among university staff?	<ul style="list-style-type: none"> <li>✓ Completed</li> <li>✓ Passed thesis defense</li> <li>✓ Published in KABU journal</li> </ul>
Dominic Kiprotich	Nutrition	How many diabetic patients attending diabetic clinic at Nakuru level 5 Hospital receive nutrition counselling and translate it to actual practice?	<ul style="list-style-type: none"> <li>✓ Completed</li> <li>✓ Passed thesis defense</li> <li>✓ Published in KABU journal</li> </ul>
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?	<ul style="list-style-type: none"> <li>✓ Completed</li> <li>✓ Passed thesis defense</li> <li>✓ Published in KABU journal</li> </ul>
Everlyne Malanda	Nutrition	What it's the prevalence of maternal obesity and child under nutrition in low resource urban setting in Nakuru county?	<ul style="list-style-type: none"> <li>✓ Completed</li> <li>✓ Passed thesis defense</li> <li>✓ Published in KABU journal</li> </ul>
Winnie Moimet	Nutrition	What are the dietary practices of hypertensive patients attending Nakuru level 5 Hospital?	<ul style="list-style-type: none"> <li>✓ Completed</li> <li>✓ Passed thesis defense</li> <li>✓ Published in KABU journal</li> </ul>



*Participants at Kabarak Workshop May 2019*

### **MicroResearch-based Thesis Workshop Kabarak University, Kenya – May 2019**

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

## MicroResearch-based Thesis Workshop Kabarak University, Kenya – Nov, 2020

<b>Student</b>	<b>Program</b>	<b>Proposed Thesis Topic</b>	<b>Project update</b>
Fred Ogada	Fam Med	Knowledge, attitudes and practices towards hepatitis B virus among healthcare workers at AIC Kijabe Hospital	✓ Awaiting proposal defense
Stella Mweu	Fam Med	Knowledge and practice regarding prostate cancer screening among clinicians at AIC Kijabe Hospital	✓ Awaiting proposal defense
Mediatrice Kyakimwa	Fam Med	Caring for a child with cerebral palsy: experiences of primary caregivers from a tertiary hospital in Kenya	✓ Awaiting proposal defense
Elijah Kameti	Fam Med	Preparedness of primary healthcare facilities in management of hypertension in Tharaka Nithi County	✓ Passed proposal defense ✓ Awaiting ethical approval
Kefa Lakasia	Fam Med	Assessment of direct cost and care and glycaemic control of diabetes mellitus type 2 patients attending diabetic clinics in two mission hospitals in Kenya	✓ Awaiting proposal defense
Alida Iradukunda	Fam Med	Patients and caregivers' perceptions towards decision-making for Do Not Resuscitate orders: a qualitative study in rural Southwestern Kenya	✓ Awaiting proposal defense
Salome Gachathi	Fam Med	Barriers to effective service delivery amongst Community Health Workers in Nakuru during the COVID outbreak	✓ Passed proposal defense
Lydia Wangui	Fam Med	Impact of an educational intervention on bilateral tubal ligation	✓ Passed proposal defense ✓ Awaiting ethical approval
Constan Cheramboss	Fam Med	Determinants of medication adherence among patients with hypertension attending selected rural hospitals	✓ Awaiting proposal defense
Tadeo Katuramu	Fam Med	Factors affecting timing of referrals of intrapartum women for emergency obstetric care from outlying healthcare facilities to Kapsowar Mission Hospital, Elgeyo-Marakwet County	✓ Awaiting proposal defense
Eunice Ondego	Fam Med	Birth outcomes after a previous cesarean section: an observational cross-sectional study in Bomet County, Kenya	✓ Passed proposal defense ✓ Received ethical approval ✓ Data collection stage
Fridah Kiptui	Fam Med	Community beliefs and attitudes on herbal medicine use among children in Silibwet sub-location, Bomet County	✓ Awaiting proposal defense
Abiuty Omweri	Fam Med	Post-discharge experiences among parents of preterm babies in Kericho County, Kenya	✓ Passed proposal defense

## MicroResearch-based Thesis Workshop Kabarak University, Kenya – Nov, 2021

Student	Program	Proposed Thesis Topic	Project update
Lilian Kamita	Fam Med	*Psychological insulin resistance prevalence among Type II diabetes patients and its association with depression and anxiety in a rural hospital	✓ Passed concept defense
Michael Orengo	Fam Med	Knowledge, attitudes and practice of diabetics attending a rural government hospital non communicable disease clinic toward covid vaccination	✓ Developing concept
Lilian Lipesa	Fam Med	Factors affecting quality of life in older persons with CKD on hemodialysis follow up in Moi Teaching and Referral Hospital	✓ Developing concept

*\*represents change of topic from what was presented at end of MR course*

## MicroResearch-based Thesis Workshop for Post-Graduates Kabarak University, Kenya – Nov 2022\*

	Program	Proposed Thesis Topic	Project update
Loraine Idionyi	Fam Med	Experiences of household members following a suicide attempt in Bureti Sub-county	✓ Passed concept defense
Boaz Omenda	Fam Med	Factors influencing adherence to HIV post-exposure prophylaxis in healthcare workers at AIC Kijabe Hospital	✓ Passed concept defense
Annette Onyango	Fam Med	Clinicians' knowledge, attitude and practice in preventing Group A Streptococcus Throat Infection progression to rheumatic heart disease in peripheral facilities in Bomet County	✓ Passed concept defense
Shiela Sisela	Fam Med	Factors Influencing The Experiences Of Healthcare Workers, In AIC Kijabe Hospital, In Delivering Bad News Of Cancer Diagnosis	✓ Passed concept defense
Lilliane Mugodo	Fam Med	Understanding factors that influence choice of cesarean section after a previous unplanned cesarean delivery in pregnant women at Kijabe Hospital	✓ Passed concept defense
John Mwangi	Fam Med	Prevalence of schistosoma haematobium infection and seasonal variation in pregnant women at Hola County Hospital	✓ Unsuccessful concept defense-asked for new concept
Stella Kibet	Fam Med	Caregiver experiences in continence care for older adults presenting to AIC Kijabe Hospital's Palliative Care Center	✓ Passed concept defense

\*Update on thesis presentations from December 2023 workshop pending



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

### MicroResearch Scientific Writing Workshops

June 2019 - MUST, Uganda <sup>1</sup>		
Institution/Location	Participants	1st Draft Manuscripts prepared
MUST	9	5
CUHAS	11	4
U of Calgary	3	N/A
February, 2020 – MUST, Uganda		
MUST	15	15
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

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*





We thank the following for their support

**Primary Partners:**



<b>Private Donations</b>	McGill University, Canada
<b>Other Sponsors and Supporters</b>	Mildmay Uganda
Africare	Montreal Children’s Hospital, Canada
BC Women’s and Children’s Hospital & Foundation, Canada	Nairobi Hospital, Kenya
Centre Hospitalier Universitaire de Kigali, Rwanda	Nova Scotia Health, Canada
Chitwan Medical College, Bharatpur, Nepal	Process Pathways Inc., Canada
Ethiopia-Canada	Rotary Clubs from Canada (Charlottetown, Kentville, and Halifax Harbourside)
Gertrude Children’s Hospital, Kenya	Rotary Clubs from Uganda (Mbarara)
Global Health Research Initiative (GHRI)	Royal College of Physicians and Surgeons of Canada
Healthy Child Uganda	St Paul’s Hospital Millennium Medical College, Ethiopia
International Development Research Centre, Canada (IDRC)	Tanzanian Training Centre for International Health (TTCIH)
Kabarack University, Kenya	University of Alberta, Canada
Kenya Medical Training College, Kenya	University of Calgary, Canada
Kisii University, Kenya	University of Malawi, Malawi
Korle-Bu Teaching Hospital, Kenya	University of Nairobi, Kenya
Makerere University, Uganda	<b>Endorsements from:</b>
Maternal, Newborn, Child Health Institute, MUST, Uganda	Canadian Paediatric Society (CPS)
Mbarara University of Science & Technology (MUST), Uganda	Society of Obstetricians & Gynecologists of Canada (SOGC)
Memorial University of Newfoundland, Canada	Canadian Child Health Clinician Scientist Program (CCHCSP)
Meru University of Science and Technology, Kenya	

**Special thanks to the many Academics Without Borders (AWB) volunteers who contributed their time and funds to the success of MicroResearch**