DR. BEATRICE MUKABANA, PhD, MScN, BScN

Senior Lecturer and Researcher | Maternal, Newborn, Reproductive and Sexual Health

Department of Reproductive Health, Midwifery and Child Health

School of Nursing, Midwifery and Paramedical Sciences

Masinde Muliro University of Science and Technology (MMUST), Kakamega, Kenya

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1. PROFESSIONAL PROFILE

Dr. Beatrice Mukabana, PhD, MScN, BScN, is a Senior Lecturer and researcher at Masinde Muliro University of Science and Technology (MMUST), with over 20 years of experience in nursing, midwifery, maternal and newborn health, teaching, research, and academic leadership. She holds a PhD in Nursing (Midwifery), an MSc in Nursing (Maternal and Neonatal Health), and a Bachelor of Science in Nursing.

Her academic expertise encompasses maternal and newborn health, reproductive and sexual health, implementation research, postgraduate research supervision, thesis examination, and scholarly peer review. She has supervised several postgraduate students and examined postgraduate theses, contributing to research capacity development and the maintenance of academic standards. She has also reviewed several manuscripts addressing maternal and newborn health issues for PLOS ONE and the African Journal of Health Sciences (AJHS), supporting the quality, scientific rigour, and relevance of published research.

She is the Principal Investigator and Kenyan research team lead for the La Caixa Foundation-funded project, Saving Newborn Lives Through Point-of-Care Early Diagnosis of Sickle Cell Disease in Kakamega County, Kenya, a €370,000 multidisciplinary initiative aimed at strengthening early newborn screening, referral pathways, and health-system capacity in collaboration with SolidarMed, MMUST, Don Amolo Memorial Kids Ark (DAMKA), and the Kakamega County Department of Health.

Dr. Mukabana serves on the AAN-DI Conference Committee, contributing to academic integrity, peer review, session design, and scholarly content oversight. She has also served on the 19th MMUST International Multidisciplinary Conference Committee. Previously, she served as Chair of the Department of Reproductive Health, Midwifery and Child Health at MMUST. In addition, she is a Nursing Council of Kenya-appointed national nursing examination question creator and moderator, with experience in curriculum development, academic quality assurance, research dissemination, and multidisciplinary collaboration.

2. EDUCATION AND PROFESSIONAL QUALIFICATIONS

PhD in Nursing (Midwifery), Jomo Kenyatta University of Agriculture and Technology (JKUAT), 2018–2026

Master of Science in Nursing (Maternal and Neonatal Health), Moi University, 2013–2016

Bachelor of Science in Nursing, Masinde Muliro University of Science and Technology (MMUST), 2009–2011

Diploma in Nursing / Kenya Registered Community Health Nursing (KRCHN), Kenya Medical Training College (KMTC), Kisumu, 2004–2007

Certificate in Nursing / Kenya Enrolled Community Health Nursing, Mukumu School of Nursing, 1991–1994

3. ACADEMIC APPOINTMENT AND DEPARTMENTAL LEADERSHIP

Senior Lecturer, Department of Reproductive Health, Midwifery and Child Health, MMUST | Jan 2024–Present

Teaching, research, postgraduate supervision, curriculum development, and community engagement.

Lecturer, Department of Reproductive Health, Midwifery and Child Health, MMUST | 2020–2023

Taught midwifery, reproductive health, child health, and medical physiology; supported the implementation of direct-entry BScN and Bachelor of Science in Medical Social Work programmes; and participated in setting, administering, and marking examinations.

Chair, Department of Reproductive Health, Midwifery and Child Health, MMUST | 2019–Jan 2024

Provided academic, administrative, and strategic leadership to support effective delivery of teaching, research, and community engagement. Supervised and coordinated staff, students, curricula, examinations, resources, and departmental activities in line with MMUST policies. Promoted quality assurance, research, partnerships, and implementation of School and University decisions. Developed and launched BSc. in Midwifery (Upgrading)

Acting Chair, Department of Reproductive Health, Midwifery and Child Health, MMUST | 2018

Carried out responsibilities assigned to the Department Chair.

Departmental Examination Coordinator and Timetabler, MMUST | 2017

Coordinated teaching and examination timetables, venue allocation, examination setting and moderation, submission and administration of examination materials, processing of results, maintenance of records, and communication with staff and students.

Tutorial Fellow, MMUST | 2017–2019

Supported teaching, tutorials, practical sessions, student academic guidance, and assessment; participated in research, publication, community engagement, student supervision, examination processes, and departmental academic activities.

4. TEACHING, CURRICULUM AND CAPACITY STRENGTHENING

- Teaching undergraduate and postgraduate content in midwifery, reproductive health, child health, and related nursing disciplines.
- Designed and implemented the upgrading RN-to-BSc Midwifery curriculum.
- Contributed to the implementation of direct-entry BScN and Bachelor of Science in Medical Social Work programmes.
- Supervised postgraduate research in maternal, newborn, reproductive, and child health.
- Organised a School of Nursing, Midwifery and Paramedical Sciences workshop on quantitative and qualitative research methods in nursing research (2020).
- Lectured at Mount Kenya University, Kakamega Campus (2012–2015) and KMTC Kakamega (2015–2016)

5. RESEARCH AND PROJECT LEADERSHIP

Principal Investigator (PI) – Saving Newborn Lives Through Point-of-Care Early Diagnosis of Sickle Cell Disease in Kakamega County, Kenya

La Caixa Foundation Child Survival Call 2025 | €370,000 | 2026–December 2027

Provides overall scientific, academic, and project leadership for a multi-partner implementation project involving MMUST, SolidarMed, DAMKA, and the Kakamega County Department of Health. The PI:

- Leads and coordinates research and implementation activities and collaboration among academic, civil-society, and county health-system partners.
- Provides oversight of capacity strengthening for health-care workers and Community Health Promoters involved in newborn SCD screening.
- Oversees research and monitoring activities and supports community engagement and integration of interventions within the county health system.
- Works with DAMKA as the implementing partner to support implementation at community and facility levels.
- Collaborates with the Sickle Cell Federation of Kenya (SCFK) in reviewing, validating, and refining training manuals for health-care workers and Community Health Promoters.

- Supports translation of evidence into practical approaches for strengthening newborn SCD screening, referral, and access to confirmatory diagnosis.

6. RESEARCH AND IMPLEMENTATION EXPERIENCE

Saving Newborn Lives Through Point-of-Care Early Diagnosis of Sickle Cell Disease in Kakamega County, Kenya | January 2026–Present

La Caixa Foundation Child Survival Call 2025; €370,000 project. Partners: SolidarMed, MMUST, DAMKA, and Kakamega County Department of Health. The project demonstrates experience in implementation, community engagement, health-system strengthening, capacity building, and multi-sectoral partnership.

Improving Long-Acting and Reversible Contraceptives Uptake Using Quality Improvement Strategy at a Sub-County Hospital, Kenya | 2018

Research publication demonstrating direct experience in contraceptive access and quality-improvement approaches.

Cultural and Religious Factors as Predictors of Uptake of Skilled Birth Services in Lurambi Sub-County, Kenya | 2019

Research examining social and contextual determinants of access to reproductive and maternal health services.

Health Facility Factors and Individual Factors as Predictors of Uptake of Skilled Birth Services in Lurambi Sub-County, Kenya | 2019

Research examining health-system and individual determinants of use of maternal health services.

7. POSTGRADUATE RESEARCH SUPERVISION

Completed / Graduated

- Beatrice Marusoi — Parental Perceived Stress and Its Influencing Factors among Parents with Newborns in Newborn Unit in Kericho and Bomet Counties, Kenya (MMUST, 2022).
- Phylis Kandie — Individual Factors Influencing Maternal and Fetal Outcomes Among Mothers Referred with Obstetric Emergencies in Baringo County Referral Hospital (MMUST, 2021).
- Caroline Chelangat — Factors Influencing Women's Preferred Mode of Delivery in Kericho County Hospitals, Kenya (MMUST, 2021).
- Teresa Kerubo Okwiri — Neonatal Pain Management Practices among Nurses Working in Newborn Units in Nyanza and Western Kenya (MMUST - 2024).

Ongoing

- Chresencia A. Nyakinda — Quality of Intrapartum Care among Postnatal Women in Jaramogi Oginga Odinga Teaching and Referral Hospital, Kisumu County (thesis ready for examination).
- Florence K. Wambua — Essential Newborn Care Practices among Postnatal Mothers at Msambweni County Referral Hospital, Kwale, Kenya (ready for mock defence).

8. SCHOLARLY PEER REVIEW AND THESIS EXAMINATION

- Journal manuscript reviewer: Reviewed several manuscripts on maternal and newborn health issues for PLOS ONE and the African Journal of Health Sciences (AJHS).
- Postgraduate thesis examiner: Examined postgraduate theses, contributing to the assessment of research quality, methodological rigour, academic writing, and postgraduate scholarship.

National nursing examination contributor: Appointed by the Nursing Council of Kenya as a national nursing examination question creator and moderator, supporting the quality and standardisation of nursing assessments.

9. SELECTED PUBLICATIONS

- Mukabana, B., Mukaka, V.E. (2019). Cultural and Religious Factors as Predictors of Uptake of Skilled Birth Services in Lurambi Sub County, Kenya. International Journal of Advanced Research, 7(3), 479–485.
- Mukaka, V.E., Mukabana, B. (2019). Health Facility Factors and Individual Factors as Predictors of Uptake of Skilled Birth Services in Lurambi Sub County, Kenya. International Journal of Advanced Research, 7(3), 515–528.
- Mukabana, B., Khayeli, N., Adegu, W. (2018). Improving Long Acting and Reversible Contraceptives Uptake Using Quality Improvement Strategy at a Sub-County Hospital, Kenya. International Journal of Advanced Research.
- Mukabana, B., Makworo, D., Mwenda, C.S. (2023). Prevalence of post-traumatic stress disorder and associated predictors among mothers of preterm infants in Western Kenya: a cross-sectional study. Pan African Medical Journal, 44, 194.
- Mukabana, B., Makworo, G.D., Mwenda, M.C. (2023). Maternal Mental Health Needs When the Unexpected Happens: A cross-sectional study among mothers with preterm infants in Western Kenya. African Journal of Health Sciences, 36(1), 10–19.
- Mukabana, B., Makworo, D., Mwenda, C.S. (2023). Mental Health Outcomes and Associated Predictors Among Mothers of Preterm Infants: A Cross-Sectional Study. East African Medical Journal, 100(4).
- Mukabana, B., Mukaka, E.V. (2017). Effects of Free Maternity Program on Client Satisfaction at a County Referral Hospital in Kenya. International Journal of Advanced Research.

10. CLINICAL AND HEALTH-SYSTEM EXPERIENCE

- More than 20 years of nursing and midwifery practice, including maternity, maternal and child health, family planning, and other clinical services.
- Nursing Officer in Charge, Iguhu County Hospital, Kakamega County (October 2015–December 2016).
- Six years as a Kenya Registered Community Health Nurse and mentor for Kakamega Medical Training College students at Kakamega County Teaching and Referral Hospital, including support to MMUST BScN clinical assessment.
- Ten years as a Kenya Registered Community Health Nurse, with experience centred on maternity, maternal and child health clinic, and psychiatry.
- Ten years as a Kenya Enrolled Community Health Nurse, including four years in maternity and family planning.

11. CIVIL SOCIETY, COMMUNITY ENGAGEMENT AND PARTNERSHIPS

- Worked with Don Amolo Memorial Kids Ark (DAMKA) as the implementing partner in the La Caixa Foundation-funded project, Saving Newborn Lives Through Point-of-Care Early Diagnosis of Sickle Cell Disease in Kakamega County, Kenya.
- Collaborated with the Sickle Cell Federation of Kenya (SCFK) in reviewing, validating, and refining training manuals for health-care workers and Community Health Promoters.
- Participated in community health activities in Eshirembe Community, Shinoyi–Shikomari–Esumeyia Ward, Navakholo Sub-County, Kakamega County (July 2023).
- Participated in community outreach services in Eshisiru Community, Butsotso Central, Lurambi Sub-County, Kakamega County (June 2023).
- Vice Chairperson, Bushiangala Health Center Board of Management.
- Vice Chairperson, Shikunga Senior School Board of Management.

12. PROFESSIONAL AFFILIATIONS

- Nursing Council of Kenya — professional licensing body.
- Midwifery Association of Kenya — Member (2016–present).
- National Nurses Association of Kenya — Member (2002–present).
- Eastern, Central and Southern Africa College of Nursing and Midwifery (ECSACONM) – 2024 - Present

13. SELECTED TRAINING AND SCIENTIFIC ENGAGEMENT

- Currently undertaking Reproductive, Maternal, and Newborn Health (RMNH) in a Changing Climate Course supported by Global Consortium on Climate and Health Education - Colombia
- Presented 'Maternal Mental Health Needs When the Unexpected Happens' at the 64th National Nurses' Annual Scientific Conference, National Nurses Association of Kenya (2022).

- Competency-Based Emergency Obstetrics and Newborn Care for Midwifery Educators — Nursing Council of Kenya and Liverpool School of Tropical Medicine (2022).
- Sepsis Management training — Cambridge Global Health Partnerships and Kakamega County Teaching and Referral Hospital (2022).
- Research capacity webinar for academic staff, MMUST (2020).
- ECSOCONM conference (Local Chapter) – 2025
- Midwifery Conference – 2025
- ECSACONM Conference (Regional) - 2026

14. AWARDS AND FELLOWSHIPS

- ECSACONM Fellow by election - 2026
- Best Performance, School of Nursing, Masinde Muliro University of Science and Technology (2011).
- Best Practical Nurse, Mukumu School of Nursing (1994).

15. REFEREES

Professor John Okoth
School of Nursing
Great Lakes University
Phone: 0724 458 545

Professor Sherry Oluchina
School of Nursing
Jomo Kenyatta University of Agriculture and Technology
Phone: 0724 668 425

Dr. Damaris Ochanda
School of Nursing, Midwifery and Paramedical Sciences
Masinde Muliro University of Science and Technology

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