

RESEARCH PUBLICATIONS

Publications in 2019

1. **T. K. Kabalimu**, G.K. Mushi, R. Muindi. Social and Cultural Factors Affecting Treatment seeking Behaviour of Patients with Cancer of Cervix, at Ocean Road Cancer Institute. Dar es salaam, Tanzania. 2019; *HURIA Journal*. 25; (2): 54-61.
2. **Adela Saria**, Zheming Liu, WeidanPu, et al. Structural and Functional Alterations in Betel-quid Chewers: A Systematic Review of Neuroimaging Findings. *Frontiers in Psychiatry*. 2019; 10: (16).
3. Ishag Adam, **Theonest K. Mutabingwa**, Elfatih M. Malik. Red Cell Distribution width and Preeclampsia: a Systematic Review and Meta –analysis. *Clinical Hypertension*. 2019; 25:15.<https://doi.org/10.1186/s40885-019-0119-7>
4. **Richard Mwaiswelo**, Billy Ngasala, Irina Jovel, Weiping Xu, Erik Larson, Maja Malmberg, Jose Pedro Gil, Zul Premji, Bruno P. Mmbando, Andreas Mårtensson. Prevalence of and Risk Factors Associated with Polymerase Chain Reaction Determined *Plasmodium falciparum* Positivity on Day 3 After Initiation of Artemether-Lumefantrine Treatment for Uncomplicated Malaria in Bagamoyo District, Tanzania. *Am J Trop Med Hyg*. 2019; 100 (5): 1179-1186.
5. Billy Ngasala, Doreen D. Mutemi and **Richard O. Mwaiswelo**. Diagnostic Performance of Malaria Rapid Diagnostic Test and Microscopy Compared with PCR for Detection of *Plasmodium falciparum* Infections among Primary Schoolchildren in Kibiti District, Eastern Tanzania: An Area with Moderate Malaria Transmission. *Am J Trop Med Hyg*. 2019; DOI: <https://doi.org/10.4269/ajtmh.19-0394>.
6. Billy Ngasala, Ferdinand Matata, **Richard Mwaiswelo** and Bruno P. Mmbando. Anemia among Schoolchildren with Malaria and Soil-Transmitted Helminth Coinfection after Repeated Rounds of Mass Drug Administration in Muheza District, Tanzania. *Am J Trop Med Hyg*. 2019; DOI: <https://doi.org/10.4269/ajtmh.19-0362>.
7. Billy Ngasala, Hamza Juma and **Richard Mwaiswelo**. The usefulness of indirect diagnostic tests for *Schistosoma haematobium* infection after repeated rounds of mass treatment with praziquantel in Mpwapwa and Chakechake districts in Tanzania. *Int J Infect Dis*. 2019; **90 (2020):132-137**.
8. Rubach, Matthew P, Haoyue Zhang, Salvatore M. Florence, Jackson P. Mukemba, Ayam R. Kalingonji, Nicholas M. Anstey, Tsin W. Yeo, **Esther D. Mwaikambo** et al. Kinetic and Cross-Sectional Studies on the Genesis of Hypoargininemia in Severe Pediatric *Plasmodium falciparum* Malaria. *Infect Immun*. 2019; 87(4) <https://doi.org/10.1128/IAI.00655-18>
9. **Rehesina H Senkoro** and **Titus K. Kabalimu**. Anaemia and Co-infection of *Plasmodium falciparum* Among Primary School Children in Kinondoni Municipality, Dar es Salaam, Tanzania. *International Journal of Science and Research*. 2019; 8 (7): 204-211.
10. **Adela A. Mwakanyamale**, Yu Yizhen. Psychological maltreatment and its relationship with self-esteem and psychological stress among Adolescents in Tanzania: A community-based study. *BMC Psychiatry*. 2019; <https://doi.org/10.1186>.

11. **Adela A. Mwakanyamale**, and Mathew D. Ndomondo. Comparison Study of Psychological Maltreatment and its Relationship with Psychological Stress and Self Esteem among School Students in Tanzania and China. *Open Journal of Nursing*, 2019; 9: 724-741. DOI: 10.4236/ojn.2019,97055.
12. **Adela A. Mwakanyamale**, Anna Mary A. Mukaja, Mathew D. Ndomondo, Joan P. Zenas, Amrose M. Stephen, Elizabeth Mika. Nursing Practice on Post-Operative Wound Care in Surgical Wards at Muhimbili National Hospital, Dar es Salaam. *Open Journal of Nursing*, 2019; 9: 870-890.
13. **Adela A. Mwakanyamale**, Anna Maey, A. Mukaja, Mathew D. Ndomondo, Elizabeth Z. Mika, John P. Zenas, Ammroce M Stephen. Child abuse and neglects and its relationship with self-esteem and psychological stress among students in China. *Global Scientific Research Journal of Public Health*. 2019; 2:1-13
14. Daniel W. Kitua, **Titus K. Kabalimu**, and **Robert Muindi**. Prevalence and Factors Associated with Hazardous Alcoholic Intake among Motorcycle Taxi Riders in Kinondoni District, Dar es Salaam, Tanzania. *East African Health Research Journal*. (Accepted August 26,2019).
15. Mbise A., **Kaijage T.**, Mwangosi P., et al. Tanzania Child Welfare Policy since the British Rule: From Probation to Social welfare. *Submitted to Child Welfare League of America Journal*. Accepted
16. **KetoMshigeni** et al. Records on *Termitomycestitanicus*: An Unsung African Edible Mushroom deserving attention. In: *IMMC Proceedings, 2019*.
17. WorldWide Antimalarial Resistance Network Methodology and Study Group (incl. **Theonest Muttabingwa**). Competing risk events in antimalarial drug trials in uncomplicated *Plasmodium falciparum* malaria: a WorldWide Antimalarial Resistance Network individual participant data meta-analysis. *Malar J*. 2019; 8:225. doi: 10.1186/s12936-019-2837-4.
18. **F N Mpenda**, M A Schilling, Z Campbell, E B Mngumi, J Buza. The genetic diversity of local African chickens: A potential for selection of chickens resistant to viral infections. *Journal of Applied Poultry Research*, 2019; 28, (1): 1-12. <https://doi.org/10.3382/japr/pfy063>

8.2. SUBMITTED MANUSCRIPTS

1. **Richard O. Mwaiswelo** and Billy Ngasala. Significance of day 3 PCR-detected residual submicroscopic *Plasmodium falciparum* parasites after treatment initiation with artemisinin-based combination therapy on malaria transmission and spread of artemisinin resistance. Review. *Malar J (Submitted)*.
2. **Richard O. Mwaiswelo**, William Mawala, Per O. Iversen, Mariane de Montalembert, Lucio Luzzatto and Julie Makani. Sick cell disease and malaria: decreased exposure and asplenia can modulate the risk from *Plasmodium falciparum*-a case report. *Malar J (Submitted)*.
3. **Fulgence Ntangere Mpenda**, Sylvester Leonard Lyantagaye and Joram Buza. Association of Chicken Mx1 Polymorphisms with Susceptibility in Chicken Embryos

Challenged with Virulent Newcastle Disease Virus Asian Journal of Animal Sciences (in press)

4. **Fulgence N. Mpenda**, Christian T. Keambou, Martina Kyallo, Roger Pelle, Sylvester. L. Lyantagaye, JoramBuza. Polymorphisms of the Chicken MxgenePromoter and Association with Chicken Embryos Susceptibility to Virulent Newcastle Disease Virus Challenge. In Press: *BioMed Research International*
5. **Fulgence Ntangere Mpenda**, Christian TiamboKeambou, Martina Kyallo, John Juma, Roger Pelle, Sylvester Leonard Lyantagaye, and JoramBuza. LEI0258 marker alleles and susceptibility in local Tanzanian, kuroiler, and Sasso chicken embryos challenged with virulent Newcastle disease virus. (In Press): *Genetics Research International*.
6. **Fulgence Ntangere Mpenda**, Sylvester Leonard Lyantagaye, and JoramBuza. Immune response following Newcastle disease immunization and growth performance of kuroiler, broiler and local Tanzanian chickens *A manuscript under review by International Journal of Livestock Production*

8.3. RESEARCH GRANT APPLICATIONS

1. **S. Kajuna, B. Sylvester, T. Kabalimu, S. Chuwa, J. Ngemera, R. Msengi** Antimalarial Resistance Molecular Marker surveillance in Tanzanian Patients Following Artemisinin Combination Therapy with ALU. *Submitted to Wellcome Trust (2018)*.
2. **Semali I and E. Mwaikambo** Enhancing efficiency of maternal and newborns interventions towards achieving SDGs in Sub Saharan Africa. *Submitted to Global Financing Facility (2019)*.
3. **Semali I and E. Mwaikambo** Cost-effectiveness of social capital on access to available malnutrition interventions in the control of stunting and micronutrient deficiencies in a rural region in Tanzania. *Submitted to Coe Eleanor Research Proposals*.
4. **Richard Mwaiswelo**, Julie Makani, Billy Ngasala, Patrick Stover, Bruno Mmbando, Raphael Sangeda, Apolinary Kamuhabwa, Lucio Luzzato, and Per Ole Iversen. Effectiveness of folic acid supplementation and antimalarial chemoprophylaxis for improving sickle cell disease outcomes: a randomized controlled trial in Tanzania. *National Institute of Health and Nestle Foundation*.
5. **Richard Mwaiswelo, Vito Baraka and Mwaka Kakolwa**. Safety of a standard single dose of ivermectin for control of malaria and other parasitic infections. *Cures within reach, ReGrow*.
6. Richard Nellis van Zyl-Smit, Chiara Batini, **Gadi Kilonzo**, Martin Tobin, **Veneranda Kirway, Nadia Ally Ahmed Charles S. Mgone, M. Ntabaye**. Exploring New Strategies for Varenicline as Smoking Cessation Therapy in Africa. A Randomised Open Label Study, comparing Efficacy and Safety of Different dosages and treatment lengths. National Institute for Health Research, UK.
7. **Keto Mshigeni, Godwin Ndossi, Sylvester Kajuna, Boniphace Migiro** and Bertha Mamiro. Establishing an Evidence Informed Centre for Edible and Medicinal Mushroom and Seaweed Products in Tanzania. *Application to African Institute for Policy Development Policy—AAS., 2019*

8. **Theresa Kaijage, Ph.D., (PI), Prof Gadi Kilonzo, Innocent Semali PhD,** and others. Social Support buffering stress and enhancing resilience of mothers of children with mental health problems in Dar es Salaam Special Schools. *Grant Application to American Embassy, 2019.*
9. **Sylvester L. Kajuna, Keto Mshigeni, Boniphace M. Sylvester, Bertha Mamiro, Titus K. Kabalimu.** Modulative Effect of Tanzanian *GanodermaLucidum* on microRNA and Cytokine mRNA Expression in Neoplasia and HIV infection. *Application submitted to Healthy Care Technologies, UK, 2019.*
10. **Esther Mwaikambo** (PI) Evaluation of prevalence and characteristics of G6PD Status in selected malaria endemic areas of Tanzania using G6PD-Hb ratio by CareSTART™POCT S1 biosensor and spectrophotometer methods 2019-2020. *Grant Application submitted to WELLS BIO, INC. and preliminary accepted for funding.*
11. Anne Roemer-Mahler, Lewis Husain, Sally MmanyiMtenga, **Charles S. Mgone,** Charles Sokile, YisambiMwanshemel, Francis Levira, YacobLema. How to study the politics of global health security? Development and interdisciplinary network and research agenda. *Accepted for funding by the Wellcome Trust, 2019.*
12. J. Brice Weinberger, **Esther D. Mwaikambo, Salvatory Florence** Safety and Endothelial Effects of Sodium Nitrite Infusion in Children with falciparum Malaria in Tanzania. Funded by NIH NHLBI grant RO1 HL120763

Publications in 2018

1. **B. Sylvester,** D Gasarasi et al. Hyperparasitaemia during clinical malaria episodes in infants aged 0-24 months and its association with in utero exposure to *P Falciparum*. *BMC Res Notes.* 2018; 11(1): 232.
2. **Godwin Ndossi and KetoMshigeni.** Nutrition, Urban Environments and future Earth (2018). *Chapter15. In: Global Change and Future Earth(ISBN 978110107171590)*
3. **Sylvester B.,**Gasarasi D. and others. Interferon-alpha and IL-10 Responses during Clinical Malaria Episodes in the first Two Years in infants. *Published on 20July 2018, in Journal of Tropical Medicine*
4. **Sylvester L. B. Kajuna, Daniel J. Muganyizi, Lucia E. Banane.** The Hypercholesterolemia Paradox in Relation to Mortality in Acute Coronary Syndrome: A Meta-Analysis Review. *International Journal of Science and Research (IJSR), Volume 7 Number 10, October, 2018.*
5. Maro, D.I., Kahabuka, F.K. and **Ntabaye, M.K.** Injuries to the tooth supporting structures in the permanent dentition. In *Dental and Maxillofacial Trauma – Challenges in Low- and Middle-Income Countries,* 2018: Editors: F. K. Kahabuka, I. K. Minja and E.N. Kikwilu. ISBN: 978-81-308-0577-1.
6. **G. Lufukuja.** High-bifurcation of Brachial Artery and its Clinical Significance. *Journal of Anatomical Science and Research.*2018 (1): 2, .

7. **T. K. Kabalimu, E. Sungwa, W. Charles.** Malnutrition and Associated Factors Among Adults attending Antiretroviral Treatment at PASADA Hospital Temeke District, Dar es Salaam. *Tanzania Journal of Health Research.* 2018;**20** (2).
8. **Sylvester B.,** Gasarasi D., and others. Prenatal Exposure to *P.falciparum* lowers humoral responses During clinical Malaria episodes. *African Journal of Applied Research.* 2018;**4**:528.
9. **Adela A. Mwakanyamale,** Dickson Wande, Yu Yizhen. Multiple Child Maltreatment Prevalence and its Relationship with Self-esteem Among Secondary School Students in Tanzania. *BMC Psychology.* 2018; **6**:35.
10. Ramaiya K, Swai A, **Mutabingwa T,** et al. Capacity and Capability of Tanzanian Healthy Facility to Diagnose and Manage Diabetes mellitus in Pregnancy. *Diabetes Res Clin Pract.* 2018. <https://doi.org/10.1016>.
11. **T. Haruna,** E Assenga, J. Shayo. A qualitative Study on Voluntariness of Counseling and Testing for HIV among Antenatal Clinic Attendees. Do Women Have a Choice? *BMC. Medical Ethics.* 2018;**19**: 92

Publications in 2017

1. Asia Jabiri, Herman Wella, **Avelina Semiono, Adella Saria, Joyce Protas.** Factors Associated with Neonatal Sepsis Among Neonates in Temeke and Mwananyamala Hospitals, Dar es salaam, Tanzania. *Tanzania Journal of Health Research Vol.18 number 4, October, 2016 (Recorded 2017).*
2. A Kisibo, V Ndume, **A Semiono, E Mika, A Sariah, J Protas,** H Landolin. Surgical Site Infection in Patients Undergone Orthopaedic Surgery at Muhimbili Orthopaedic Institute. Dar es Salaam, Tanzania. *East Centr O Afr J. Surg.* 2017, Vol. 22(1)
3. Flora Njiku, Herman **Wella, Adella Saria, Joyce Protas.** Prevalence and Factors Associated with Late Antenatal Visits Among Pregnant Women in Lushoto, Tanga, Tanzania. *Tanzania Journal of Health Research Vol.19, Number 3, July 2017*
4. **Lufukuja G.** Superficial Ulnar Artery: a rare phenomenon. *Anat Res.* 2017; **4**:2409-2411. DOI:10.1165/IJAR.2017.217.
5. Rubach, Matthew P., **Jackson Mukemba, Salvatore Florence,** Nicholas M. Anstey, Tsin W. Yeo, **Esther D. Mwaikambo,** J Brice Weinberg, Donald L. Granger. Severe deficiencies of amino acid precursors for l-arginine de novo biosynthesis in pediatric falciparum malaria: implications for nitric oxide insufficiency. *Amer Journ Trop Med Hyg.* 2017; 97:478-478.
6. Yeo, Tsin W., **Salvatore M. Florence, Ayam R. Kalingonji,** Youwei Chen, Donald L. Granger, Nicholas M. Anstey, **Esther D. Mwaikambo,** J Brice Weinberg. Decreased Microvascular Function in Tanzanian Children with Severe and Uncomplicated Falciparum Malaria. *Open Forum Infect Dis.* 2017;**4**: (2) <https://doi.org/10.1093/ofid/ofx079>.

8.4 ON GOING RESEARCH

1. **Richard Mwaiswelo**, Billy Ngasala, Bruno Mmbando and Andreas Martensson. Single low-dose primaquine efficacy and safety for treatment of uncomplicated *Plasmodium falciparum* malaria based on cytochrome P450 2D6 activity in Bagamoyo district, Tanzania. *EDCTP*.
2. Billy Ngasala, **Richard Mwaiswelo**, Mercy Chiduo, Bruno Mmbando, Frank Chacky and Fabrizio Molteni. Effectiveness of seasonal malaria chemoprophylaxis in extended high transmission settings of Tanzania. *Global Fund*.