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EDUCATION

2007 - 2012 PhD (Epidemiology). *University of Amsterdam, Amsterdam, The Netherlands* (Thesis: improving drug regimens and implementation strategies for malaria prevention in pregnant women in western Kenya)

2000 - 2001 Masters in International/Public Health
University of Copenhagen, Copenhagen, Denmark

1990 - 1991 Higher National Diploma in Medical Laboratory Sciences (Bsc eq)
(Specialty: Parasitology/Entomology), *Kenya Medical Training College, Nairobi, Kenya*

SUMMARY

I am a public health specialist with more than 20 years of experience in malaria research and programmatic activities and training in biomedical sciences, public health and epidemiology. I have planned and conducted numerous studies including epidemiological studies, operations research and clinical trials and produced results with important policy implications. Regarding program work, I have worked very closely in the past 12 years with the Kenya National Malaria Control Program in drafting and implementing major malaria policy documents including the Kenya National Malaria Strategy paper (2009-2017) and the mid-term (2014-2018) revision of sections of the strategy paper which included epidemic preparedness and response, vector control, case management and malaria in pregnancy. More recently I was the lead consultant for writing up malaria in pregnancy and malaria elimination thematic sections of the Kenya Malaria Strategy 2019-2023. I have led the implementation and evaluation of the uptake of malaria control interventions, especially for malaria in pregnancy and currently serve in 3 Technical Working Groups within the Kenya National Malaria Program, to promote translation of research into policy. Globally, since 2009, I have been a member of the Malaria in Pregnancy Consortium and the WHO-RBM Malaria in Pregnancy Technical Working Group. I have conducted consultancies for WHO in support of malaria programmes for various countries (Republic of Kenya, Republic of South Sudan and the State of Eritrea) in the areas of malaria epidemiology, malaria epidemic preparedness/response, development of malaria Global Fund concept note and malaria in pregnancy. Beginning 2019 I am on staff of the Maseno University School of Medicine as a senior lecturer.

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RELEVANT WORK EXPERIENCE

2019

Maseno University

Senior lecturer, Maseno University School of Medicine, Kenya

Beginning 2019, teaching: Medical epidemiology and Public health, Medical parasitology and research methodology and technical writing at Maseno University School of medicine in Western Kenya.

2002-2016

(CDC/KEMRI) Malaria Epidemiology Section

In 2002 I joined the Centers for Disease Control and Prevention (CDC)/Kenya Medical Research Institute (KEMRI) as a research officer in malaria branch, developing to a senior research officer in 2009 and rising to head of the malaria epidemiology section from February 2010.

Duties: Coordinating and implementing epidemiologic studies, operations research projects, and clinical trials, and representing KEMRI/CDC in the Technical Working Groups within the Ministry of Health's National Malaria Control Programme and in the global Malaria in Pregnancy Consortium.

Previous work: mainly focused studies on malaria epidemiology and provided day-to-day supervision of clinical trials to assure smooth implementation including: writing protocols and moving those protocols through ethical clearance, drafting standard operating procedures (SOPs), supervision and supportive mentorship of staff, junior scientists, and clinical trial staff (nurses, clinical officers, counselors, laboratory personnel and administrative staff), assuring adherence to standard operating procedures (SOPs) and protocols, cleaning and analyzing data, presenting research findings in stake-holder meetings in local and international conferences and writing manuscripts for publications. I also oversee overall implementation of malaria control programmes. Managed staff of 50-60 personnel depending on the number of epidemiological studies on the ground.

CONSULTANCY WORK (Malaria Programming Work):

- 1. Global Fund to fight Aids, Malaria and Tuberculosis (GF):** Contracted by the Global Fund to assess the quality and coverage of the WHO Malaria Test, Treat and Track strategy as implemented by the State of Eritrea (rapid assessment conducted in January through February 2020).
- 2. Ministry of health, Kenya:** Consulted by PS-KENYA to write up two chapters of the Kenya Malaria Strategy 2019-2013 (chapter on malaria in pregnancy and sub-regional malaria elimination in Kenya) - (June 2018- January 2019).
- 3. World Health Organization- WHO Eritrea Country Office and MOH, State of Eritrea (2016-2017)**

Reviewed and updated malaria country profile and revised key malaria regulations and legislation policy documents. Specifically:

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- Wrote the framework for sub-regional malaria elimination in Eritrea
- Supported the development of malaria Global Fund Proposal.
- Supported the development of the Eritrean Malaria Strategic Plan.
- Reviewed and updated malaria country profile.
- Developed malaria policy, regulations and legislation in line with epidemiological and socio-economic context.
- Revised and updated Eritrean malaria epidemic forecasting and preparedness manual.
- Produced malaria transmission risk maps.
- Developed malaria early warning systems using disease data, climate information, vegetation indices and other factors of malaria transmission.

4. World Health Organization- WHO South Sudan Country Office and MOH Republic of South Sudan (2015-2016)

Conducted malaria epidemic investigation, capacity building for MOH personnel/stake-holders and to update malaria epidemic guidelines for South Sudan.

Specifically:

Conducted a desk/consultative review of the 2015 malaria upsurge in South Sudan and documented lessons learnt

- Reviewed the malaria epidemic response plan and suggested improvements for the future
- Developed supportive supervision manual for epidemic preparedness and response including tools for pre-season, during season and post-season assessments
- Developed a standard annual calendar of malaria activities highlighting timing of pre-season preparedness activities in relation to other activities
- Advised on the minimum standards for each of the stages of the epidemic preparedness and response cycle (i.e. forecasting, early warning, preparedness, detection, response and post-epidemic evaluation)
- Provided advice on most ideal method to use for malaria epidemic thresholds given that both the mean+2SD and third quartile methods are in use
- Established criteria for discriminating true malaria upsurges from increased number of cases due to other factors such as improved reporting, concentrating health facilities, displacement, etc.
- Reviewed epidemic preparedness and response guidelines and proposed areas to be updated
- Mapped partners in malaria control in order to identify those with comparative advantage in supporting epidemic preparedness and response interventions to establish a better coordination and command control structures
- Designed a format for simple weekly/monthly bulletin that highlights malaria trends and response activities being carried out
- Recommend measures for preparedness (and other) activities for the 2016 malaria season

5. World Health Organization-WHO Kenya Country Office and MOH, Republic of Kenya

Mid-term Review of the Kenya National Malaria Strategy, specifically:

- Reviewed relevant documents (including the Kenya National Malaria Strategy 2009-2017, the mini-Malaria Program Review Report, implementation guidelines, partners' reports, etc) and summarized the key achievements, failures and recommendations;

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- Conducted a review of published and unpublished literature on the implementation of malaria in pregnancy control strategies in Kenya;
- Compiled the Mid Term Review Report for malaria in pregnancy strategies;
- Facilitated and recorded the malaria in pregnancy thematic area discussions and used the information to enrich the thematic area report;
- Prepared the initial draft text of the revised Kenya National Malaria Strategy.

6. USAID/PMI/Ministry of Health, Republic of Kenya (2010-2013)-Ministry of Health, Republic of Kenya

Evaluation of the uptake of intermittent Preventive treatment for malaria in pregnancy in Kenya Specifically:

- Conducted repeat cross-sectional surveys to assess the proportion of women receiving intermittent preventive treatment for malaria in pregnancy using sulfadoxine-pyrimethamine
- Assessed the proportion of pregnant women achieving the recommended antenatal care visits
- Formulated strategies to improve uptake of intermittent preventive treatment for malaria in pregnancy
- Designed simplified memo's, job-Aids and algorithms for point of care use to improve uptake of these interventions

1997–2000

District Coordinator

Kenyan-Danish Health Research Project

Ministry of Health, Division of Vector-borne Diseases, Kenya

The Kenyan-Danish Health Research Project: coordinated a multi-disciplinary research project comprising of anthropology, parasitology, health education, educational psychology, nutrition, health systems research and maternal/child health at the district level. Specific responsibilities included:

- Coordinated field activities for the organization
- Prepared minutes of meetings, field reports and provided relevant equipment and consumables for researchers at the field level
- Ensured friendly relationships are maintained and strengthened with the local community
- Informed the study population of the planned and on-going research activities, and provided feedback on the research findings

1992–1996

Coordinator

Community based primary health care programs

Ministry of Health, Division of Vector-borne Diseases, Kenya

- Implemented and coordinated activities of a number of community-based primary health care programs among them the UNICEF-sponsored Bamako initiative project, which resulted in establishing 30 community pharmacies (where bednets were made available at subsidized prices at the community level), in Siaya County, Kenya.
- These tasks, done within the District Health Management Team (DHMT), led to a considerable experience and insight in to organization and management of health service provision by the MOH at the district level.

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- Gained considerable experience in malaria control activities especially with regard to treatment of bed nets with insecticides and performing bioassays to ensure quality of their residual effect.

1987–1991

Officer In-charge

Bura irrigation scheme in Kenya's Coast Province

Ministry of Health, Division of Vector-borne Diseases, Kenya

- Coordinated routine surveillance of malaria, schistosomiasis and other intestinal helminths in settler community and school children
- Compiled regular reports and recommendations to the head of vector-borne diseases in Kenya and
- Supervised technicians and auxiliary staff, maintenance of stores, and compiling regular reports to the national Director, Division of Vector-borne Diseases.

SELECTED PUBLICATIONS

1. **Ouma P**, Parise ME, Hamel MJ, ter Kuile FO, Otieno K et al. (2006). A randomized controlled trial of folate supplementation when treating malaria in pregnancy with sulfadoxine-pyrimethamine. *PLoS Clinical Trials* 1 (6): e 28. DOI: 10.1371/journal.Pctr.0010028.
2. **Ouma P**, van Eijk AM, Hamel MJ, Parise ME et al. (2007) Malaria and anaemia among pregnant women at first antenatal clinic visit in Kisumu, western Kenya. *Tropical Medicine and International Health*, 12 (12), 1515-1523.
3. **Ouma P**, van Eijk Am, Hamel MJ, Sikuku E et al. (2007). The effect of health care worker training on the use of intermittent preventive treatment for malaria in pregnancy in rural western Kenya. *Tropical Medicine and International Health*, 12 (8), 1-9.
4. **Ouma P**, van Eijk AM, Hamel MJ, Sikuku ES, Odhiambo FO, Munguti KM, Ayisi JG, Crawford SB, Kager PA, Slutsker L (2010).: Antenatal and delivery care in rural western Kenya: the effect of training health care workers to provide "focused antenatal care. *Reproductive Health*, 7:1. <http://www.reproductive-health-.com/content/1/1>.
5. van Eijk AM, **Ouma P**, Williamson J, Ter Kuile FO, Parise M, Otieno K, Hamel MJ, Ayisi JG, Kariuki S, Kager PA, Slutsker L (2008). Plasma Folate Level and High Dose Folate Supplementation Predict Sulfadoxine-pyrimethamine Treatment Failure in Pregnant Women in Western Kenya who have uncomplicated Malaria. *JID* 2008, 198, 1550-1553.
6. Gama E, Were V, **Ouma P**, et al. (2016). Large-scale implementation of disease control programmes: a cost-effectiveness analysis of long-lasting insecticide treated bed net distribution channels in a malaria endemic area of western Kenya—a study protocol. *BMJ Open* 2016; 6:e012776. doi:10.1136/bmjopen-2016- 012776.
7. Riley C, Dellicour S, **Ouma P**, Kioko U, ter Kuile FO, Omar A, et al. (2016). Knowledge and Adherence to the National Guidelines for Malaria Case Management in

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- Pregnancy among Healthcare Providers and Drug Outlet Dispensers in Rural Western Kenya. *PLoS ONE* 11(1): e0145616.doi:10.1371/journal.pone.0145616.
8. Dellicour S, Esperance S, McGready R, Tinto H, Mosha D, Manyando C, Rulisa S, Desai M, **Ouma P**, Oneko M, Vala A, Calip G, Augusto O, Genton B, Njunju EM, Moore KA, Umberto D, Nosten F, ter Kuile F, Stergachis A (2017). First-trimester artemisinin derivatives and quinine treatments and the risk of adverse pregnancy outcomes in Africa and Asia: A meta-analysis of observational studies. *PLoS Med* 14(5): e1002290. <https://doi.org/10.1371/journal.pmed.1002290>.
 9. Nicaise Tuikue Ndam, Emmanuel Mbuba, Raquel González, Pau Cisteró, Simon Kariuki, Esperança Sevene, María Rupérez, Ana Maria Fonseca, Anifa Vala, Sonia Maculuve, Alfons Jiménez, Llorenç Quintó, **Peter Ouma**, Michael Ramharter, John J. Aponte, Arsenio Nhacolo, Achille Massougboji, Valerie Briand, Peter G. Kremsner, Ghyslain Mombo-Ngoma, Meghna Desai, Eusebio Macete, Michel Cot, Clara Menéndez and Alfredo Mayor (2017). Resisting and tolerating *P. falciparum* in pregnancy under different malaria transmission intensities. *BMC Medicine*, 15:130. DOI 10.1186/s12916-017-0893-6.
 10. Dellicour D, Aol G, **Ouma P**, Yan N, Hamel MJ, Burton DC, Oneko M, Breiman RF, Slutsker L, Feikin D, Kariuki S, Odhiambo F, Calip G, Stergachis A, Laserson KF, ter Kuile FO, Desai M (2016). Weekly miscarriage rates in a community-based prospective cohort study in rural western Kenya.
 11. Hill J, Hoyt J, Achieng F, **Ouma P**, L'lanziva A, Kariuki S, Desai M, Webster J (2016). User and Provider Acceptability of Intermittent Screening and Treatment and Intermittent Preventive Treatment with Dihydroartemisinin-Piperaquine to Prevent Malaria in Pregnancy in Western Kenya. *PLoS One*, in press.
 12. Green M, Otieno K, Katana A, Slutsker L, Kariuki S, **Ouma P**, González R, Menendez C, Ter Kuile F, Desai M (2016). Pharmacokinetics of mefloquine and its effect on sulfamethoxazole and trimethoprim steady-state blood levels in intermittent preventive treatment (IPTp) of pregnant HIV-infected women in Kenya. Green et al. *Malaria Journal* 15:7 DOI 10.1186/s12936-015-1049-9.
 13. Shuford K, Were F, Awino N, Samuels A, **Ouma P**, Kariuki S, Desai M, Allen DR. (2016). Community perceptions of mass screening and treatment for malaria in Siaya County, western Kenya. Shuford et al. *Malaria Journal* 15:71 DOI 10.1186/s12936-016-1123-y.
 14. Tinto H, Sevene E, Dellicour S, Calip GS, d'Alessandro U, Macete E, Nakanabo-Diallo S, Kazienga A, Valea I, Sorgho H, Valá A, Augusto O, Ruperez M, Menendez C, **Ouma P**, Desai M, Ter Kuile F, Stergachis A (2015). Assessment of the safety of antimalarial drug use during early pregnancy (ASAP): protocol for a multicenter prospective cohort study in Burkina Faso, Kenya and Mozambique. *Reproductive Health*. doi: 10.1186/s12978-015-0101-0.
 15. Dellicour S, Desai M, Aol G, Oneko M, **Ouma P**, Bigogo G, Burton D, Breiman RF, Hamel M, Slutsker L, Feikin D, Kariuki S, Odhiambo F, Pandit J, Laserson KF, Yan N, Calip G, Stergachis A, ter Kuile FO (2015). Risks of miscarriage and inadvertent exposure to artemisinin derivatives in the first trimester of pregnancy: a prospective study in western Kenya. *Malaria Journal* 14:461.

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16. Desai M, Gutman J, Taylor SM, Wiegand RE, Khairallah C, Kayentao K, **Ouma P**, Coulibaly SO, Kalilani L, Mace KE, Arinaitwe E, Mathanga DP, Doumbo O, Otieno K, Edgar D, Chaluluka E, Kamuliwo M, Ades V, Skarbinski J, Shi YP, Magnussen P, Meshnick S, Ter Kuile FO (2016). Impact of Sulfadoxine-Pyrimethamine Resistance on Effectiveness of Intermittent Preventive Therapy for Malaria in Pregnancy at Clearing Infections and Preventing Low Birth Weight. *Clinical Infectious Disease* 62 (3): 323-33.
17. Desai M, Gutman J, L'lanziva A, Otieno K, Juma E, Kariuki S, **Ouma P**, Were V, Laserson K, Katana A, Williamson J, ter Kuile FO (2015). Intermittent screening and treatment or intermittent preventive treatment with dihydroartemisinin-piperazine versus intermittent preventive treatment with sulfadoxine-pyrimethamine for the control of malaria during pregnancy in western Kenya: an open-label, three-group, randomised controlled superiority trial. *Lancet* 386 (10012) : 2507-19.
18. Mason L, Dellicour S, Ter Kuile F, **Ouma P**, Phillips-Howard P, Were F, Laserson K, Desai M (2015). Barriers and facilitators to antenatal and delivery care in western Kenya: a qualitative study. *BMC Pregnancy Childbirth*; 15:26.
19. Hill J, Kayentao K, Achieng F, Diarra S, Dellicour S, Diawara SI, Hamel MJ, **Ouma P**, Desai M, Doumbo OK, ter Kuile FO, Webster J (2015). Access and use of interventions to prevent and treat malaria among pregnant women in Kenya and Mali: a qualitative study. *PLoS One* 10(3): e0119848.
20. González R, Desai M, Macete E, **Ouma P**, Kakolwa MA, et al. (2014) Intermittent Preventive Treatment of Malaria in Pregnancy with Mefloquine in HIV Infected Women Receiving Cotrimoxazole Prophylaxis: A Multicenter Randomized Placebo-Controlled Trial. *PLoS Med* 11(9): e1001735. doi:10.1371/journal.pmed.1001735.
21. Menaca A, Pell C, Manda-Taylor L, Chatio S, Afrah NA, Were F, Hodgson A, **Ouma P**, Kalilani L, Tagbor H, Pool R (2013). Local illness concepts and their relevance for the prevention and control of malaria during pregnancy in Ghana, Kenya and Malawi: findings from a comparative qualitative study. *Malaria Journal* 12 :257.
22. Desai M, Phillips-Howard PA, Odhiambo FO, Katana A, **Ouma P**, Hamel MJ, Omoto J, Macharia S, van Eijk A, Ogwang S, Slutsker L, Laserson KF (2013). An analysis of pregnancy-related mortality in the KEMRI/CDC health and demographic surveillance system in western Kenya. *PLoS One* 8(7) : e68733.
23. Hill J, Dellicour S, Bruce J, **Ouma P**, Smedley J, Otieno P, Ombock M, Kariuki S, Desai M, Hamel MJ, ter Kuile FO, Webster J (2013). Effectiveness of antenatal clinics to deliver intermittent preventive treatment and insecticide treated nets for the control of malaria in pregnancy in Kenya. *PLoS One* 8(6) : e64913.
24. Pell C, Meñaca A, Were F, Afrah NA, Chatio S, Manda-Taylor L, Hamel MJ, Hodgson A, Tagbor H, Kalilani L, **Ouma P**, Pool R (2013). Factors affecting antenatal care attendance: results from qualitative studies in Ghana, Kenya and Malawi. *PLoS One* 8(1) : e53747.
25. Iriemenam NC, Shah M, Gatei W, van Eijk AM, Ayisi J, Kariuki S, Vanden Eng J, Owino SO, Lal AA, Omosun YO, Otieno K, Desai M, ter Kuile FO, Nahlen B, Moore J, Hamel MJ, **Ouma P**, Slutsker L, Shi YP (2012). Temporal trends of sulphadoxine-pyrimethamine (SP) drug-resistance molecular markers in *Plasmodium*

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falciparum parasites from pregnant women in western Kenya. *Malaria Journal*, 11:134
<http://www.Malariajournal.com/content/11/1/134>.

26. Bassat Q, González R, Machevo S, Nahum A, Lyimo J, Maiga H, Mårtensson A, Bashraheil M, **Ouma P**, Ubben D, Walter V, Nwaiwu O, Kipkeu C, Lefèvre G, Ogutu B, Menéndez C (2011). Similar efficacy and safety of artemether-lumefantrine (Coartem®) in African infants and children with uncomplicated *falciparum* malaria across different body weight ranges. *Malaria Journal* 10 :369.
27. Skarbinski J, **Ouma PO**, Causer LM, Kariuki SK, Barnwell JW, Alaii JA, de Oliveira AM, Zurovac D, Larson BA, Snow RW, Rowe AK, Laserson KF, Akhwale WS, Slutsker L, Hamel MJ. (2009). The effect of malaria rapid diagnostic tests on the management of uncomplicated malaria with artemether-lumefantrine in Kenya: a cluster randomized trial. *Am. J. Trop. Med. Hyg.* 80 (6), 919-926.
28. de Oliveira AM, Skarbinski J, **Ouma PO**, Kariuki S, Barnwell JW, Otieno K, Onyona P, Causer LM, Laserson KF, Akhwale WS, Slutsker L, Hamel M (2009). Performance of malaria rapid diagnostic tests as part of routine malaria case management in Kenya. *Am. J. Trop. Med. Hyg.* 80 (3), 470-474.
29. Hamel MJ, Greene C, Chiller T, **Ouma P**, Polyak C, Otieno K, Williamson J, Shi YP, Feikin DR, Marston B, Brooks JT, Poe A, Zhou Z, Ochieng B, Mintz E, Slutsker L. (2008). Does Cotrimoxazole Prophylaxis for the Prevention of HIV-Associated Opportunistic Infections Select for Resistant Pathogens in Kenyan Adults? *Am. J. Trop. Med. Hyg.* 79 (3), 2008, pp. 320-330.
30. Hamel MJ, Poe A, Bloland P, McCollum A, Zhou Z, Shi YP, **Ouma P**, Otieno K, Vulule J, Escalante A, Udhayakumar V, Slutsker L. (2008). Dihydrofolate reductase 1164L mutations in *Plasmodium falciparum* isolates: clinical outcome of 14 Kenyan adults infected with parasites harbouring the 1164L mutation. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, 102, 338-345.
31. van Eijk AM, Lindblade KA, Odhiambo F, Peterson E, Sikuku E, Ayisi JG, **Ouma P**, Rosen DH, Slutsker L. (2008). Reproductive health issues in rural western Kenya. *Reproductive health*, 5 (1), doi: 10.1186/1742-4755-5-1.
32. McCollum AM, Poe AC, Hamel M, Huber C, Zhou Z, Shi YP, **Ouma P**, Vulule J, Bloland P, Slutsker L, Barnwell JW, Udhayakumar V, Escalante AA (2006). Antifolate resistance in *Plasmodium falciparum*: Multiple origins and identification of novel dhfr alleles. *JID*, 194, 187-197.
33. **Ouma PO**, Household malaria surveillance as a tool to monitor malaria by the DHMT in Bondo district, western Kenya. MPH Thesis. University of Copenhagen, Copenhagen, Denmark.
34. **Ouma PO**, Improving drug regimens and implementation strategies for malaria in pregnant women in western Kenya (2012). PhD Thesis. University of Amsterdam, Amsterdam, The Netherlands (Book: UvA-Digital academic repository of the University of Amsterdam).
35. Kioko U, Riley C , Dellicour S , Were V , **Ouma P**, Gutman J , Kariuki S , Omar a , Desai M and Ann M. Buff (2016). A cross-sectional study of the availability and price of anti-malarial medicines and malaria rapid diagnostic tests in private sector retail drug

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outlets in rural Western Kenya, 2013. *Malaria Journal* 15-358. DOI 10.1186/s12936-016-1404-5.

36. Kioko U, Riley C, Dellicour S, Were V, **Ouma P**, Gutman J, Kariuki S, Omar A, Desai M, Buff AM, 2016. Availability and cost of antimalarial medications in drug outlets in rural Siaya County, western Kenya. *Malar J* 15: 359.</jrn>

SELECTED CONFERENCE PAPERS

1. Intermittent Preventive Treatment for malaria in pregnancy in a rural area of western Kenya: community-based assessment towards improved coverage; Paper presented at the 54th annual meeting of the American Society of Tropical Medicine and Hygiene in Washington, DC, USA-December 11th-15th, 2005 (abstract number 633)
2. Folate supplementation and the efficacy of sulfadoxine-pyrimethamine for the treatment of uncomplicated malaria in pregnant women in Kenya: a randomized placebo controlled trial, paper presented at the 54th annual meeting of the American Society of Tropical Medicine and Hygiene in Washington, DC, USA-December 11-15th, 2005, late breakers in clinical tropical medicine (abstract number 2328).
3. Prevalence of and risk factors for peripheral malaria parasitemia and anemia among antenatal clinic attendees in Kisumu, western Kenya; Poster presented at the 54th annual meeting of the American Society of Tropical Medicine and Hygiene in Washington DC, USA-December 11th-15th, 2005, (abstract number 374)
4. The Spectrum of Illness among HIV-infected Adults Receiving Cotrimoxazole (CTX) Prophylaxis in Kisumu, Kenya; paper presented at the International Conference on Emerging Infectious Diseases, Atlanta, Georgia, USA, February 29th-March 3rd, 2004, (International conference on emerging infectious diseases 2004, program and abstracts book pp.116).
5. Clinical Diagnosis of uncomplicated malaria in older children and adults in Kenya: an evidence base for newly introduced guidelines. Paper presented at the 56th annual meeting of the American Society of Tropical Medicine and Hygiene in Philadelphia, Pennsylvania, USA (2007). Abstract book vol. 77, number 5.
6. A retrospective cohort study among pregnant HIV-infected women to assess the effectiveness of daily cotrimoxazole on the prevention of placental malaria: Paper presented at the Multilateral Initiative for malaria conference in Nairobi, Kenya (November 1-7, 2009).
7. March 2010 Project Management on Clinical Research conducted by the Vienna School of Clinical Research.
8. Antenatal and delivery care in rural western Kenya. Poster presented at the 64th meeting of the American Society of Hygiene and Tropical Medicine meeting in Philadelphia, Pennsylvania USA (25th -30th October, 2015).

Honors/Awards

Superior Honors Award of CDC/KEMRI for special contribution to science (2007 annual award).

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SEMINARS AND OTHER TRAININGS

- June, 2015 Meeting on strengthening collaboration between national malaria control programmes and research institutions in the African region organized by the WHO.
- March, 2010 Project Management on Clinical Research conducted by the Vienna School of Clinical Research.
- 2010 Programme Management Course Organized and conducted by the Vienna School of International Health (CRESIB)
- April, 2005 Workshop on severe malarial anaemia organized by the University of Pittsburg, USA.
- March, 2000 One-month course in health and development organized by the African Medical and Research Foundation (AMREF). This course, Training of Facilitators (TOFF) is primarily designed to improve facilitation skills for managers of health programs.
- April, 1998 Course on the evaluation of malaria control programs organized by WHO-Afro Regional office.
Malaria Control Program, various courses organized by the National Malaria Control Program, Kenya.
Facilitated various training sessions for the National Malaria Control Program and CARE INTERNATIONAL aimed at retraining health workers in rural health facilities of Siaya District.

Grants

In collaboration with other scientists I have written and won at least 4 grants.

- From 2002 to date. KEMRI/CDC Research Station, Kisumu, Kenya Malaria Epidemiology Section Chief. Co-investigator and co grant holder: Conducting many epidemiologic studies, clinical trials and program evaluations at the KEMRI/CDC Research Station in Kenya (837,546 GBP)
- From 2007 to date. GAP/CDC, Atlanta, USA. Principal investigator in a study to assess the effectiveness of daily cotrimoxazole on the prevention of placental malaria among pregnant HIV-infected women (252,274 GBP)
- From 2009 to date. CDC, Atlanta, USA. Principal investigator in a study on antenatal and delivery care in rural western Kenya (186,536 GBP)
- 2010 to date. Bill and Melinda Gates Foundation. Co-principal investigator (Kenyan site) in a study to assess the safety and efficacy of mefloquine on the prevention of malaria in HIV-infected women taking cotrimoxazole prophylaxis (multi-centre trial) (398,736 GBP)

REFERENCES

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