

CURRICULUM VITAE



NAME	PROF. BENSON B. A. ESTAMBALE
CURRENT POSITION	DEPUTY VICE CHANCELLOR (RESEARCH, INNOVATION & OUTREACH)
UNIVERSITY ACADEMIC POSITION	PROFESSOR OF MEDICAL MICROBIOLOGY & INFECTIOUS DISEASES
INSTITUTION	JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
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PERSONAL DATA	
PLACE OF BIRTH	VIHIGA COUNTY, KENYA
NATIONALITY	KENYAN
PROFESSION	PHYSICIAN / INFECTIOUS DISEASES SPECIALIST

1. SUMMARY OF CAREER EXPERIENCE

A medical doctor by training with postgraduate training in the management and control of tropical and infectious diseases. Been involved in various health research projects of public health importance including epidemiology and control of malaria, lymphatic filariasis, schistosomiasis and other neglected diseases of the poor. Served and still serves in various capacities either as a Principal Investigator, Project Director or Programme Coordinator as well as being a Committee/Board Member of various research projects and programmes. Been involved in the scale-up programmes for antiretroviral therapy (ART) in health facilities within the City of Nairobi and its environs. For nine (9) years since 2003, was the first and pioneer Director of the University of Nairobi Institute of Tropical and Infectious Disease (UNITID) which is a vibrant research and training unit of the University of Nairobi. By the end of the period of service, the Institute had successfully won 30 grants/research projects, negotiated and created over 20 active linkages and established training programmes at Master of Science (MSc.) and Doctor of Philosophy (PhD) as well as established the first fellowship programme at the University of Nairobi (UON Fellow in HIV Programmes Management). In January 2013, appointed the Deputy Principal, Research, Innovation & Outreach (RIO) at Bondo University College. At the elevation of the College to a full University status renamed Jaramogi Oginga Odinga University of Science and Technology, appointed the Deputy Vice Chancellor (Research, Innovation and Outreach).

2. EDUCATION

<i>Year (from – to)</i>	<i>Degree, Institution</i>
1976 – 1981	Bachelor of Medicine and Bachelor of Surgery (MBChB), [University of Nairobi]
1986 – 1987	MSc. in Applied Parasitology & Medical Entomology [Liverpool School of Tropical Medicine – University of Liverpool]
1987	Diploma in Tropical Medicine & Hygiene (DTM&H) [Liverpool School of Tropical Medicine – University of Liverpool]
1990 – 1992	Doctor of Philosophy (PHD) [University of Nairobi]

3. EMPLOYMENT/CAREER HISTORY

<i>Years since</i>	<i>Company / Institution</i>
JULY 2013 ONWARDS	Deputy Vice Chancellor (Research Innovation & Outreach) Jaramogi Oginga Odinga University of Science and Technology
FEB 2013 – JULY 2013	Ag. Deputy Vice Chancellor (Research Innovation & Outreach; and Ag. Deputy Vice Chancellor (Academic Affairs) Jaramogi Oginga Odinga University of Science and Technology
JAN 2013	Deputy Principal (Research Innovation & Outreach) Bondo University College
2004 – 2012	DIRECTOR, University of Nairobi Institute of Tropical and Infectious Diseases (UNITID), College of Health Sciences
2011	PROFESSOR, Medical Microbiology and Tropical Medicine
2002 – 2011	ASSOCIATE PROFESSOR, Medical Microbiology, College of Health Sciences, University of Nairobi.
1995 – 2002	SENIOR LECTURER, Medical Microbiology, University of Nairobi
1988 – 1995	LECTURER, Medical Microbiology. University of Nairobi
1984 – 1987	ASSISTANT LECTURER, Section of Parasitology, Department of Medical Microbiology, University of Nairobi
1982 – 1984	MEDICAL OFFICER, Machakos Provincial General Hospital in charge of various departments of the hospital
1981 – 1982	MEDICAL OFFICER INTERN, Machakos Provincial General Hospital

4. OTHER APPOINTMENTS

<i>Year</i>	<i>Appointment as/Institution/Project</i>
2011-2013	External Examiner: Department of Human Pathology, Aga Khan University Hospital, Nairobi
2009-2013	Academic Mentor: The Canadian Institute for Health Research (CIHR) International Infectious Disease and Global Health Training Program. A multi country training program involving universities in Canada, Kenya, India and Colombia.

	< http://www.iidandghp.com/igid_program_supervisors.html >
2007-2009	Special Member , on the Student Research Advisory Committee University of Maryland Eastern Shore Graduate Faculty, Maryland, USA.
2008	External PhD Examiner at the Faculty of Life Sciences (incorporating DBL- Centre for Health Research and Development) University of Copenhagen, Denmark
2008	External PhD Examiner at the Faculty of Life Sciences (incorporating DBL Centre for Health Research and Development) University of Copenhagen, Denmark.
2005	External PhD Examiner at the Faculty of Life Science (DBL- Institute for Public Health Research) University of Copenhagen, Denmark
2003-2005	External Examiner , Department of Parasitology and Medical Entomology, Muhimbili University College of Health Sciences, University of Dar es Salaam, Tanzania
2001-2004	External PhD Supervisor , Faculty of Life Science, University of Copenhagen, Denmark.

5. PROJECT LEADERSHIP POSITIONS

<i>Year</i>	<i>Position/Programme/Institution</i>
2008-2012	Deputy Programme Director , HIV Fellowship Program. A collaborative programme of University of Nairobi, University of Washington, Seattle and Centre for Diseases Control and Prevention (CDC).
2008-2012	Project Technical Leader – Improved Counselling on Implants to Prevent Unintended Pregnancy under the Contraceptive and Reproductive Health Technologies Research and Utilization Program – W0118 FHI ID. No. 112140 0118.0294
2008-2012	Project Technical Leader – Safety of Implant Use Among Women on Antiretroviral Therapy under the Contraceptive and Reproductive Health Technologies Research and Utilization Program – W0118 FHI ID. No. 112141 0118.0293
2004-2007	Project Director , Incorporating anti-retroviral therapy into research-based care at the collaborative centres clinics and the University of Nairobi Health Services. A PEPFAR /FHI project
1998-2003	Head, Parasitology Section , Dept of Medical Microbiology, UON.
1996-2002	Deputy Director STD/HIV Collaborative Projects, Department of Medical Microbiology, University of Nairobi.
1999-2000	Coordinator , Biomedical Research Methodology Course,

6. RESEARCH PROJECTS (Current to past)

<i>Years/Duration</i>	<i>Position /Title / Institutions/Sponsor</i>
2013-2016	Principal Investigator: Early warning systems for improved human health and resilience to climate sensitive vector borne diseases in Kenya. Granting Agency - World Health Organization/Special Programme for Research and Training in Tropical Diseases and International Development Research Centre, Canada (WHO/TDR/IDRC)
2011-2015	Co-Principal Investigator: Impact of insecticide resistance on malaria vectors and the effectiveness of vector control interventions in Rachuonyo, Nyando, Bondo and Teso Districts of Kenya: A Multidisciplinary Approach involving KEMRI, University of Nairobi (Division of Malaria Control and CDC Kisumu. Gates Foundation/

	World Health Organization (WHO)
2009-2014	National Principal Investigator: Treatment of Childhood Under nutrition: Development of and Access to Improved Foods (TREATFOOD). Dept of Human Nutrition, University of Copenhagen, University of Nairobi Institute of Tropical and Infectious Diseases (UNITID), Dept of Paediatrics and Child Health, Jimma University Specialised Hospital (JU), Ethiopia and Dept of Child & Adolescent Health and Development, WHO, Switzerland. www.TreatFood.org
2008-2013	National Principal Investigator, Alleviating childhood malnutrition by improved utilization of traditional foods (WINFOOD). University of Copenhagen, University of Nairobi Institute of Tropical and Infectious Diseases & the Inland Fisheries and Research Institute, Cambodia. http://www.winfood.org/index.php/kenya Call No. FP7-KBBE-2007-1
2010-2013	Co-Principal Investigator: Phase 3 Open Label Randomised Comparative Study to Evaluate Azithromycin plus Chloroquine and Sulphadoxine plus Pyrimethamine Combinations for Intermittent Preventive Treatment (IPT) of falciparum malaria infection in pregnant women in Africa. A multicentre clinical trial project. Siaya District Hospital, UNITID and Pfizer Pharmaceutical Company. Protocol #. A0661158 – 1004
2010-2013	Co-Principal Investigator: An Open Label, Non Comparative Study to Evaluate Parasitological Clearance Rates and Pharmacokinetics of Azithromycin and Chloroquine following administration of a fixed dose combination of Azithromycin and Chloroquin (AZCQ) in asymptomatic pregnant women with <i>Plasmodium falciparum</i> parasitaemia in Sub-Saharan Africa Protocol #. A0661201 – 1004
2004-2006	Principal Investigator Intermittent preventive treatment in schools: randomized controlled trial of the impact of IPT on malaria, anaemia and education amongst schoolchildren in western Kenya. University of Nairobi Institute of Tropical and Infectious Diseases (UNITID), London School of Hygiene and Tropical Medicine UK, Imperial College UK, DBL-Institute for Health Research and Development in Denmark and Division of Malaria Control, MOH, Kenya
1999-2008	Project Leader HIV/AIDS/Reproductive Health Component of the Kenyan-Belgium VLIR Project. Flemish Universities in Belgium and the University of Nairobi, Kenya.
2004-2007	Project Director Incorporating anti-retroviral therapy into research-based care at the Collaborative Centre Clinics and the University of Nairobi Health Services. A PEPFAR /FHI.
2001-2004	Co-Principal Investigator Double blind randomized controlled phase I human trial to evaluate the safety and immunogenicity of WRAIR's MSP-1 malaria vaccine (FMP-1) adjuvanated in Glaxo-SmithKline Biological A 502A vs. Rabies vaccine in western Kenya. US Army Medical Research Institute (Walter Reed) and the Kenya Medical Research Institute (KEMRI) Kisumu

7. CONSULTANCIES

<i>Year from – to</i>	<i>Position, Project / Programme, Company / Institution / Client Description of roles and responsibilities</i>
Oct. 2010 – Jan 2011	<u>Consultant</u> – National Consultants Team to Review and Develop a costed Research and Evaluation Strategy for the National AIDS Control Council (NACC). Task: Assessment and Gap Analysis
May – July 2010	<u>Lead Consultant</u> – Malaria case management training for frontline healthcare workers in Central Province Phase II . Ministry of Public Health & Sanitation and Global Fund
Jul–Sept 2009	<u>Lead Consultant</u> – Malaria Case Management Training Programme for Frontline Health Workers Phase I . A programme of the Division of Malaria Control (Kenyan Ministry of Public Health and Sanitation). Sponsored by Global Fund and WHO.
Sept. 2009	<u>Proposals Technical Review Team</u> – Kenya HIV and AIDS Research Coordinating Mechanism (KARSCOM). Consultancy of the National AIDS Control Council (NACC), Nairobi, Kenya. Technical review of submitted proposals for funding
2007 - 2009	<u>Lead Consultant/Team Leader</u> – Nomadic Clinics and Healthcare Provision to the Nomadic Populations of North-Eastern Province of Kenya. The assessment of nomadic clinics and their role in the provision of healthcare to the nomadic population of NEP. DANIDA financed Health Sector Programme Support II (HSPS 2), Ministry of Medical Services.
2000 - 2003	<u>Project Coordinator and Consultant</u> - The Kenyan-Danish Health Research (KEDHR) Project. A multi-disciplinary project involving Division of Vector Borne Diseases (DVBD) of the Kenya Ministry of Health in collaboration with the Kenya Medical Research Institute (KEMRI), Institute of African Studies (IAS), University of Nairobi, Department of Psychology, Kenyatta University and the Danish Bilharziasis Laboratory (DBL) collaborating with the Department of Human Nutrition of the University of Copenhagen, Denmark.
1998 - 2008	<u>Project Leader</u> , HIV/AIDS/Reproductive Health Component of the Kenyan-Belgium VLIR Project, a multidisciplinary project involving collaboration between the Flemish Universities in Belgium and the University of Nairobi, Kenya

8. OUTREACH ACTIVITIES

<i>Year from - to</i>	<i>Specific description of Activity</i>
2006-12	Successful negotiation of scholarship to benefit Postgraduate Diploma in Research Methodology students of the University of Nairobi (Beneficiaries - total of 77 students at the cost of Ksh. 6,107,030.00)
2004-2008	Care and Treatment of HIV/AIDS Patients: Scaling up of anti-retroviral therapy (ART) in selected Nairobi City Council Clinics, the University of Nairobi Health Services and Tigoni District Hospital in Kiambu District. A programme of the University of Nairobi and Family Health International (FHI) sponsored by PEPFAR

1999-2008	HIV/AIDS & Reproductive Health in Kenya: Predictors for transmission of HIV in patients attending City Council of Nairobi clinics.
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9. LINKAGES AND COLLABORATIONS ESTABLISHED

<i>Year from – to</i>	<i>Description of links/collaborations</i>
2005 - 2015	University of Nairobi/University of Manitoba, Canada. Collaborative link for training, faculty/student exchange, research and community service on HIV/AIDS and other sexually transmitted infections
2010 – 2012	University of Nairobi/ Pfizer Pharmaceutical Company USA/ Siaya District Hospital. A clinical trial agreement on phase III open label randomised comparative study to evaluate Azithromycin + Chloroquine and Sulphadoxine + Pyrimethamine combinations for intermittent preventive treatment (IPT) on <i>falciparum</i> malaria infection in pregnant women in Africa.
2008–2011	University of Nairobi/Department of Human Nutrition, Faculty of Life Sciences, University of Copenhagen: Agreement on a research project entitled “Alleviating Childhood Malnutrition in Developing Countries through Improved Utilization and Processing of Traditional Foods”. DANIDA Grant No. 57 – 08 – LIFE.
2003 – 2012	University of Nairobi/DBL – Centre for Health Research and Development, Faculty of Life Sciences, University of Copenhagen, Denmark. Support for specific research in lymphatic filariasis, <i>Mansonella perstans</i> , schistosomiasis and neglected tropical diseases of the poor; support of training programmes including postgraduate research methodology and a short course on Multivariate Statistics using STATA version 10.
2009-2013	University of Nairobi/University of Washington for Training HIV Program Managers under the UNITID Fellowship Program.
2008-2012	University of Nairobi/Family Health International Master sub-Agreement under the Contraceptive and Reproductive Health Technologies Research and Utilization Program USAID GPO–A–00–05–00022–00.
2007 – 2009	University of Nairobi/Medicines for Malaria Venture, Geneva /Shin Poong Pharmaceuticals Co. S. Korea. A phase III comparative (double blind, double dummy) randomized multicentre clinical study to assess the safety and efficacy of fixed dose formulation of oral pyronaridine artesunate versus artemether lumefantrine (Coartem) in children and adult patients with acute uncomplicated <i>Plasmodium falciparum</i> malaria.
2004–2008	University of Nairobi/London School of Hygiene and Tropical Medicine: Gates Malaria Partnership Project: Intermittent preventive treatment in schools: Randomized controlled trial of the impact of IPT on malaria, anaemia and education among school children in western Kenya.
2004 – 2008	University of Nairobi/Family Health International Agreement on scaling up of antiretroviral drugs (ARVs) in research clinics of Nairobi City Council and Tigoni District Hospital
2006 – 2009	University of Nairobi/International Agency for Research on Cancer, Lyon, France: On human papillomavirus (HPV) type distribution in case series of cervical cancer and pre-cancer patients in Nairobi, Kenya

2006 - 2009	University of Nairobi/Tufts University Boston – Agreement on Improving HAART adherence in ARV Treatment Expansion programmes in Kenya. An Operational Evaluation and Cost Analysis under a grant from the Doris Duke Charitable Foundation. Grant No. 2005046
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10. TRAININGS /WORKSHOPS ATTENDED (Last 5 years)

2013	2 nd Capacity Strengthening Workshop for the WHO/TDR/IDRC research initiative on Population Health Vulnerabilities to Vector-Borne Diseases: Increasing Resilience under Climate Change Conditions in Africa. Held at the Regional Centre for Mapping of Resources for Development (RCMRD) Nairobi, Kenya 24th – 28th June 2013.
2013	1 st East African MicroResearch Forum: Research Presentations, networking and Scientific Writing Skills. Organized by Dalhousie University, Nova Scotia, Canada in collaboration with IDRC at the College of Health Sciences, Makerere University, Mulago Hospital 25th – 26th March 2013.
2012	Proposal Development Workshop for the WHO/TDR/IDRC Research Initiative on Population Health Vulnerabilities to Vector-Borne Diseases: Increasing Resilience under Climate Change Conditions in Africa. Organized by WHO/TDR/IDRC, held at Noguchi Memorial Research Institute, University of Ghana, Legon, Accra (4th – 7th Nov. 2012).
2012	Joint Academies Symposium on Changing Patterns of health problems in sub-Saharan Africa(SSA): Impact of communicable and Non-Communicable Diseases, Organized by the Germany National Academy of Sciences, Leopoldina, the Ghana Academy of arts and Sciences (GAAS), and the Network of African Sciences Academies (NASAC), held at Bernhard Nocht Institute of Tropical Medicine, Hamburg, Germany (1st – 3rd Nov. 2012).
2010	Moderators' meeting of the International Society for Infectious Diseases (ISD). Organized by the ISID. Venue: Dakar, Senegal (11th – 14th Nov. 2010).
2010	Project Investigators' workshop on the Impact of insecticide resistance on malaria in four African countries. Organized by WHO, Geneva. Venue: Yaounde, Cameroon (28th – 29th Oct. 2010).
2010	Malaria Vaccine Advocacy Fellowship Workshop. Organized by the Malaria Vaccine Initiative (MVI)/PATH, Bethesda. Venue: Accra, Ghana (6th – 8th July 2010).
2010	Post - Approval Program (PAP) Advisory Board meeting/workshop for the Malaria Vaccine Initiative (MVI), Glaxo SmithKline (GSK) Biologicals S.A. and Bill and Melinda Gates Foundation. Ferney-Voltaire, France (2nd – 4th March 2010).
2009	Stakeholders Workshop on Strengthening Research for Neglected Diseases of Poverty as a GOK/MOH appointed representative in Berlin, Germany. Organized by GTZ/WHO (16th – 18th March, 2009)

11. MEMBERSHIP TO COMMITTEES/BOARDS

Chairman	Certification Committee for Guinea Worm Diseases Eradication in Kenya, Programme for the Ministry of Public Health and Sanitation
Regional Moderator	Program for Monitoring Emerging Diseases for English speaking Africa (ProMED – EAFR).
Board Member	Post Approval Program Advisory Board: RTS,S/AS Malaria Vaccine under the Malaria Vaccine Initiative (MVI/PATH) sponsored by the

	Program for Appropriate Technology in Health (PATH), Westlake Av. Seattle, USA and GlaxoSmithKline (GSK) Rixensert, Belgium.
Member	Leadership and Mentors Committee: International Infectious Disease and Global Health Training Program. A multi-country training program involving universities and Research Institutes in Canada, Kenya, India and Colombia. http://www.iidandghtp.com/documents/Leadership_and_Mentors_of_the_IID&GH_Training_Program.pdf
Member	Kenya Independent Immunization Technical Advisory Group (KITAG): Ministry of Public Health and Sanitation, Kenya.
Alternate Member	Nairobi Health Management Board (NHMB)
Member	Research Technical Working Group: Ministry of Health, Kenya on Malaria Epidemiology, Prevention and Control in Kenya
Member	Consensus Study Committee: Indoor Residual Spraying as a means to control Malaria in Uganda. Uganda National Academy of Sciences.
Member	Proposals Technical Review Team: National AIDS Control Council (NACC) - Kenya HIV and AIDS Research Coordinating Mechanism (KARSCOM).
Special Member	Graduate Advisory Board: University of Maryland Eastern Shore Graduate Faculty
Member	Malaria Vaccine Decision Making Framework Committee: A joint initiative between PATH Malaria Vaccine Initiative, WHO (Africa Region), UNICEF and the Kenya Ministry of Health.
Member	Global Lymphatic Filariasis Control Programme Task Force: Ministry of Health, Kenya.
Member	Health Research Capacity Strengthening (HRCS) in Kenya Task Force: A joint initiative organized by IDRC, Department for International Development (DfID)–United Kingdom and Wellcome Trust.
Member	Editorial Review Board: East African Medical Journal (An Organ of the Kenya Medical Association)

12. MEMBERSHIP TO PROFESSIONAL ASSOCIATIONS /BODIES

Member	Kenya National Academy of Sciences (KNAS)
Member	Kenya Medical Association (KMA)
Member	Royal Society for Tropical Medicine (RSTM)
Member	International Society for Infectious Diseases (ISID)
Member	Inter Academy Medical Panel (IAMP)

13. LANGUAGE PROFICIENCY (Fair, Good, Excellent)

Language	Proficiency	Speaking	Reading	Writing
ENGLISH	Excellent	Excellent	Excellent	Excellent
KISWAHILI	Excellent	Excellent	Excellent	Excellent
LUHYA	Excellent	Excellent	Excellent	Excellent

14. CONFERENCES ATTENDED (Last 5 years)

2013	Inter-Academy Medical Panel (IAMP) Conference on Changing Patterns of
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	Non-Communicable Diseases and 4 th General Assembly. Crowne Plaza Hotel, Johannesburg, South Africa 13th – 16th August 2013
2013	International Meeting on Emerging Diseases and Surveillance (IMED) at Hilton Hotel, Vienna Austria, 15th – 18th February 2013
2012	XVIII International Congress for Tropical Medicine and Malaria organized by the XLVIII Congress of the Brazilian Society of Tropical Medicine at the Royal Tulip Hotel, Rio de Janeiro, Brazil 23rd – 27th Sept. 2012.
2012	15 th International Congress on Infectious Diseases and Moderators Meeting of the Program for Monitoring of Emerging Diseases (ProMED). Organized by the <i>International Society for Infectious Diseases</i> in Bangkok, Thailand on 13th – 16th June 2012.
2010	Inter-Academy Medical Panel (IAMP) Scientific Meeting and 3 rd General Assembly. Organized by the Academy of Sciences Malaysia. Venue: Kuala Lumpur, Malaysia on 7th – 11th June 2010.
2010	14 th International Congress on Infectious Diseases and Moderators Meeting of the Program for Monitoring of Emerging Diseases (ProMED). Organized by the <i>International Society for Infectious Diseases</i> . Miami, Florida USA on 9th – 12th March, 2010.
2009	19 th International Congress on Nutrition (ICN 2009). Bangkok, Thailand on 4th – 9th Oct., 2009.
2009	5 th African Regional Training Programs in Epidemiology and Public Health Interventions Network (TEPHINET) & 3 rd African Field Epidemiology Network (AFENET), Scientific Conference. Sarova Whitesands Mombasa, Kenya (30thAug – 4thSept. 2009)
2009	ACCORDIA Global Health Foundation's Infectious Diseases Summit on Building Healthcare Leadership in Africa in Kampala Uganda (20th – 22nd April, 2009):
2009	Stakeholders Meeting on Strengthening Research for Neglected Diseases of Poverty as a GOK/MOH appointed representative in Berlin, Germany. Organized by GTZ/WHO (16th – 18th March, 2009)
2009	2 nd International Congress on Emerging Diseases and Surveillance (IMED). Organized by the <i>International Society for Infectious Diseases</i> . Vienna, Austria (13th – 16th Feb., 2009).

15. PUBLICATIONS (Past 10 years)

1. P.B. Gichangi, J. Bwayo, **B. Estambale**, H. De Vyust, S. Ojwang, K. Rogo, H. Abwao, M. Temmerman (2003). The Impact of HIV infection on invasive cervical cancer in Kenyan women. *AIDS* **17**: 1963 – 1968.
2. A. Blackwell, A.E Stuart, **B.A. Estambale** (2003). The repellent and antifeedant activity of Myrica Gale oil against *Aedes aegypti* mosquitoes and its enhancement by the addition of salicylic acid. *J.R. Coll. Physicians Edinb.* **33**: 209 – 214.
3. **Estambale BBA** (2003): Microbial infections in the twenty first century. A continuous challenge. Editorial. *E.Afr. Med. J.* **80**: 393 – 394.
4. P.Gichangi, **B. Estambale**, J. Bwayo, K. Rogo, A. Opiyo, M. Temmerman (2003). Knowledge and practice about cervical cancer and Pap smear testing among patients at Kenyatta National Hospital Nairobi, Kenya. *Int. J. Gynecol. Cancer.* **13**: 1 – 7.
5. Kiambo N., Magnussen, P., **Estambale B.**, Ouma J.H., Mugo B (2003). Prevention of anaemia in pregnancy using insecticide-treated bednets and sulfadoxine-pyrimethamine in a highly malarious are of Kenya: A randomized controlled trial. *Trans. R Soc. Trop. Med. Hyg.* **97**: 277 – 282.
6. S. Brooker, S. Clarke, JK Njagi, S. Polack, B. Mugo, **B. Estambale**, E. Muchiri, P.

- Magnussen, J. Cox (2004). Spatial clustering of malaria and associated risk factors during an epidemic in a highland area of western Kenya. *Trop Med & Int. Health* **9** (7) 757 – 766.
7. A.I. Luoba, P. Wenzel Geissler, **B. Estambale**, J.H. Ouma, P. Magnussen, D. Alusala, R. Ayah, D. Mwaniki, H. Friis (2004). Geophagy among pregnant and lactating women in Bondo District, Western Kenya. *Trans. R. Soc. Trop. Med. Hyg.* **98** (12) 734 – 741.
 8. S. Clarke, S. Brooker, J.N. Kiambo, E. Njau, **B. Estambale**, E. Muchiri, P. Magnussen (2004). Malaria morbidity among school children living in two areas of contrasting transmission in western Kenya. *Am. J. Trop. Med. & Hyg.* **71** (6) 732 – 738.
 9. Mukoko, DAN, Pedersen EM, Masese NN, **Estambale BBA**, Ouma JH (2004). Bancroftian Filariasis in 12 villages in Kwale District, Coastal region, Kenya. Variation in clinical and parasitological patterns. *Annals Trop. Med. Parasit.* **98** (8) 801 – 815.
 10. A.I. Luoba, P. W. Wenzel Geissler, **B. Estambale**, J. Ouma, D. Alusala, R. Ayah, D. Mwaniki, P. Magnussen, H. Friis (2005). Earth-eating and re-infection with intestinal helminths among pregnant and lactating women in western Kenya. *Trop. Med. & Int. Hlth.* **10** (3) 220 – 227.
 11. Jaoko WG, Simonsen PE, Meirowitsch DW, **Estambale BBA**, Malecela-Lazaro MN, Michael E (2006). Filarial Specific antibody response in East African Bancroftian filariasis: Effects of Host infection, Clinical Disease and Filarial endemicity. *Am. J. Trop. Med. Hyg.* 75(1) 97 – 107.
 12. Walter G. Jaoko, Edwin Michael, Dan W. Meyrowitsch, **Benson Estambale**, Mwele Malecela, Paul Simonsen (2007) Immunoepidemiology of *Wuchereria bancrofti* infection: parasite transmission intensity, filarial-specific antibodies, and host immunity in two East African communities. *Infection and Immunity*: **75**(12) 5651 – 5662. (Doi: 10.1128/IAI.00970-07)
 13. Orech FO, Christensen, DL, Larsen T, Friis H, Aagaard-Hansen J & **Estambale BA** (2007b). Mineral content of traditional leafy vegetables from western Kenya. *International Journal of Food Sciences and Nutrition*, 58(8): 595-602.
 14. H. de Vuyst, P. Gichangi, **B. Estambale**, E. Njuguna, S. Franceschi, M. Termaman (2007). Human papillomavirus types in women with invasive cervical carcinoma by HIV status in Kenya. *Int. J. Cancer*: **244**, 244 – 246
 15. S. Brooker, W. Akhwale, R. Pullan, **B. Estambale**, S. E. Clarke, R.W. Snow & P.J. Hotez (2007). Epidemiology of Plasmodium-Helminth co-infection in Africa: Populations at risk, Potential Impact on Anemia and Prospects for Combining Control. *Am. J. Trop. Med. Hyg.* 77 (suppl. 6) 88 – 98.
 16. D.N. Alusala, **B.B.A. Estambale**, P. Magnussen, H. Friis, I.A. Luoba, D. Mwaniki (2008). Predictors of serum ferritin and haemoglobin during pregnancy in a malaria-endemic area of western Kenya. *Ann of Trop. Med.Parasitol.*102 (4)1- 12.
 17. Clarke, SE, Jukes MCH, Kiambo JN, Khasakhala I., Cundill B., Otido, JM, Crudder C, **Estambale BBA**, Brooker S. (2008). Health and Education Impact of intermittent preventive treatment in school children: A cluster-randomised control trial (*The Lancet* Vol. 372 July12, 2008).
 18. A. Koukounari, **B.B.A Estambale**, J.K. Njagi, B. Cundill, A. Ajanga, C. Crudder, J.Otido, M. Jukes, S.E. Clarke & Simon Brooker (2008). Relationships between anaemia and parasitic infections in Kenyan schoolchildren: a Bayesian hierarchical modeling approach (*Int. J. Parasitol.* Jun 12; 186 21651).
 19. M. Temperley, D. Mueller, J.K. Njagi S. E. Clarke, **B.B.A. Estambale** and S. Brooker (2008). The costs and cost-effectiveness of delivering intermittent preventive treatment for malaria through primary schools in a malaria endemic area of western Kenya (*Malar. J. Sept*, 30; **7**(1) 196 188 26594).
 20. R. T. Lester, E.J. Mills, A. Kariri, P. Ritvo, M. Chung,W. Jack, J. Habyarimana, S.

- Karanja, S. Barasa, R. Nguti, **B. Estambale**, E. Ngugi, T.B. Ball, L. ThabaneJ. Kimani, L. Gelmon, M. Ackers & F. Plummer (2009). The HAART Cellphone Adherence Trial (WeTel Kenya 1). A Randomised Control Trial Protocol. BioMed Central. <http://www.trialsjournal.com/content/10/1/87>
21. D.N. Alusala, **B.B.A Estambale**, (2009). Intermittent Presumptive Treatment of Malaria to Prevent Low Birth weight in Newborns in a Cohort of Pregnant Women from A malaria Endemic Area. *E. Afr. Med. J.* **69** (8):463 – 471.
 22. Richard T Lester, Paul Ritvo, Edward J Mills, Antony Kariri, Sarah Karanja, Michael H Chung, William Jack, James Habyarimana, Mohsen Sadatsafavi, Mehdi Najafzadeh, Carlo A Marra, **Benson Estambale**, Elizabeth Ngugi, T Blake Ball, Lehana Thabane, Lawrence J Gelmon, Joshua Kimani, Marta Ackers, Francis A Plummer (2010). Effects of a mobile phone short message service on antiretroviral treatment adherence in Kenya: a randomized trial. *The Lancet Vol.* 376.
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