

CURRICULUM VITAE (January 2013)
DOROTHY MBORI - NGACHA

CURRICULUM VITAE

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PROFESSIONAL PROFILE

- A medical epidemiologist with specialist training in pediatrics, infectious disease and child health.
- A public health professional with twenty years of experience in academia, public sector work, the NGO community and international organizations with specific interests and experiences in Child Health and Pediatric HIV interventions.
- Extensive background in the design implementation and evaluation of HIV/AIDS programs in resource-constrained settings.
- Experience in leading several diverse, multicultural teams and with working with Ministry of Health personnel in up-scaling effective HIV/AIDS interventions and in establishing strategic partnerships.
- Excellent interpersonal, managerial, and advocacy skills and a reliable and committed, team player.

CURRENT POST: 2009 to Present

Senior HIV Specialist, United Nations Children’s Fund (UNICEF), East & Southern Africa Region
Leads and Supports the work of UNICEF in the East and Southern Africa Region. Supports government efforts to achieve MDG 4 5 and 6 by reducing the number of paediatric HIV infections; increase the proportion of HIV-positive women and infants receiving antiretroviral drugs; and increase the proportion of children receiving treatment for HIV and AIDS, using integrated cost-effective approaches. Responsible for fostering inter-agency collaboration within the UN and with other key stakeholders working in the Region.

EDUCATIONAL QUALIFICATIONS

1998: MPH Washington, Seattle USA.
1987: Certificate of Tropical Medicine University of Nairobi.
1992: Certificate in Epidemiology London School of Hygiene & Tropical Medicine
1985-1988: Master of Medicine (MMed. Paediatrics) University of Nairobi
1977-1983: MB ChB University of Nairobi.
1976: East African Certificate of Advanced Education, Alliance Girls High School
1974: East African Certificate of Education, Alliance Girls High School

SCHOLARSHIPS AND AWARDS

Association of Commonwealth Universities Fellowship in Infectious Disease at St Mary's Hospital London (1991-2)

Advanced in-country Scholarship (Fogarty, 1999-2001)

Elizabeth Glaser Pediatric AIDS Foundation International Leadership award (April 2002)

POSTS HELD

2007 – 2009 Chair, Department of Pediatrics, University of Nairobi

2004 - to present ***Associate Professor, Department of Pediatrics, University of Nairobi***
(on Leave of absence)

In addition to teaching responsibilities as out-lined below, member of the College of Health Sciences Management Board with administrative duties as assigned by the Principal of the College and Dean of the School of Medicine.

2006 to 2009 ***Deputy Director for Program, CDC Global AIDS Program, Kenya***
Provides technical and strategic leadership for the PEPFAR funded (~160m US\$) Global AIDS Program (GAP), CDC Kenya including program design, planning, implementation, monitoring, review and evaluation. Responsible for the supervision of 5 team leads (HIV Prevention, Counseling and Testing, PMTCT, Paediatrics, and HIV care and treatment and Laboratory). Responsible for fostering inter-agency collaboration and presenting GAP-Kenya and CDC at the highest levels.

2002 – 2006 ***Chief, PMTCT Section, CDC Global AIDS Program, Kenya***
Led and supervised all PMTCT work for the PEPFAR funded Global AIDS Program (GAP), CDC Kenya with a budget of ~8million US\$. Responsible for the supervision of a team of senior level public health professionals implementing PMTCT activities; Program management and oversight of partner agencies implementing PMTCT activities funded by CDC Kenya; Technical leadership to ensure that PMTCT activities are based on the latest relevant science; Guided and participated in the development and implementation of monitoring and evaluation projects including program guidelines and practices; Strategic planning, representing GAP-Kenya and CDC at the highest levels.

1998 - 2004: ***Senior Lecturer in Paediatrics, University of Nairobi***
Lectures, seminars, clinical teaching and mentorship of undergraduate and postgraduate students in the Department of Paediatrics and Child Health; Supervision of post graduate students' research projects. Research in Paediatrics and Child Health with specific focus in the field of PMTCT and Paediatric HIV

1991 -1992: ***Clinical Research Fellow in Infectious Disease - St. Mary's Hospital London.***
Clinical in-patient care and laboratory based research on meningococcal meningitis in children.

1989 -1998: ***Lecturer in Paediatrics, University of Nairobi & Consultant Paediatrician, Kenyatta National Hospital Nairobi***
Providing specialist in-patient and out-patient paediatric services to children at the National Teaching and Referral Hospital; Supervision of undergraduates and postgraduate medical students and ward staff in the clinical areas

- 1988 -1989: *Paediatrician, School Health Program Nairobi***
Responsible for design and implementation of the School Health Program in the City Council Schools in Nairobi
- 1985 -1988: *Senior House Officer, Kenyatta National Hospital Nairobi.***
Day to day outpatient and inpatient care of paediatric patients. Supervision of clinical officers, medical students, junior doctors and nursing staff
- 1984 -1985: *Medical Officer, Voi District Hospital.***
Day to day outpatient and inpatient care. Supervision of clinical officers and nursing staff.
- 1983 -1984: *House Officer (Intern) Coast General Hospital, Mombasa.***
Internship under supervision with focus on general medicine, paediatrics and child health and obstetrics and gynaecology and surgery

PROFESSIONAL RESPONSIBILITIES

- 1) Secretary Kenya Paediatric Association 1993 - 1997
- 2) Referee East African Medical Journal 1995 - 2006
- 3) Deputy Director Nairobi Clinical Epidemiology Unit 1999-2001
- 4) Member of KNH-Ethics & Research Committee 2000 to 2007
- 5) Chair Steering Committee of the African Network for the Care of Children Affected by HIV/AIDS (ANECCA) 2005 to 2009

PUBLICATIONS

B. Selected peer-reviewed journal publications (in chronological order).

- 1: John-Stewart GC, Wariua G, Beima-Sofie KM, Richardson BA, Farquhar C, Maleche-Obimbo E, **Mbori-Ngacha D**, Wamalwa D. Prevalence, perceptions, and correlates of pediatric HIV disclosure in an HIV treatment program in Kenya. *AIDS Care*. 2012 Dec 20. [Epub ahead of print] PubMed PMID: 23256520.
- 2: Chi BH, Adler MR, Bolu O, **Mbori-Ngacha D**, Ekouevi DK, Gieselman A, Chipato T, Luo C, Phelps BR, McClure C, Mofenson LM, Stringer JS. Progress, challenges, and new opportunities for the prevention of mother-to-child transmission of HIV under the US President's Emergency Plan for AIDS Relief. *J Acquir Immune Defic Syndr*. 2012 Aug 15;60 Suppl 3:S78-87. doi: 10.1097/QAI.0b013e31825f3284. Review. PubMed PMID: 22797744.
- 3: Turan JM, Steinfeld RL, Onono M, Bukusi EA, Woods M, Shade SB, Washington S, Marima R, Penner J, Ackers ML, **Mbori-Ngacha D**, Cohen CR. The study of HIV and antenatal care integration in pregnancy in Kenya: design, methods, and baseline results of a cluster-randomized controlled trial. *PLoS One*. 2012;7(9):e44181. doi: 10.1371/journal.pone.0044181. Epub 2012 Sep 6. PubMed PMID: 22970177; PubMed Central PMCID: PMC3435393.
- 4: Lohman-Payne B, Slyker JA, Moore S, Maleche-Obimbo E, Wamalwa DC, Richardson BA, Rowland-Jones S, **Mbori-Ngacha D**, Farquhar C, Overbaugh J, John-Stewart G.

Breast milk cellular HIV-specific interferon γ responses are associated with protection from peripartum HIV transmission. *AIDS*. 2012 Oct 23;26(16):2007-16. doi: 10.1097/QAD.0b013e328359b7e0. PubMed PMID: 22948269.

5: Slyker JA, Rowland-Jones SL, Dong T, Reilly M, Richardson B, Emery VC, Atzberger A, **Mbori-Ngacha D**, Lohman-Payne BL, John-Stewart GC. Acute cytomegalovirus infection is associated with increased frequencies of activated and apoptosis-vulnerable T cells in HIV-1-infected infants. *J Virol*. 2012 Oct;86(20):11373-9. Epub 2012 Aug 8. PubMed PMID: 22875969; PubMed Central PMCID: PMC3457128.

6: Irimu GW, Gathara D, Zurovac D, Kihara H, Maina C, Mwangi J, **Mbori-Ngacha D**, Todd J, Greene A, English M. Performance of health workers in the management of seriously sick children at a Kenyan tertiary hospital: before and after a training intervention. *PLoS One*. 2012;7(7):e39964. doi: 10.1371/journal.pone.0039964. Epub 2012 Jul 31. PubMed PMID: 22859945; PubMed Central PMCID: PMC3409218.

7: McGrath CJ, Nduati R, Richardson BA, Kristal AR, **Mbori-Ngacha D**, Farquhar C, John-Stewart GC. The prevalence of stunting is high in HIV-1-exposed uninfected infants in Kenya. *J Nutr*. 2012 Apr;142(4):757-63.

8: Kinuthia J, Kiarie JN, Farquhar C, Richardson BA, Nduati R, **Mbori-Ngacha D**, John-Stewart G. Uptake of prevention of mother to child transmission interventions in Kenya: health systems are more influential than stigma. *J Int AIDS Soc*. 2011 Dec 28;14:61.

9: Farquhar C, Lohman-Payne B, Overbaugh J, Richardson BA, Mabuka J, Bosire R, **Mbori-Ngacha D**, John-Stewart G. Breast milk HIV-1 RNA levels and female sex are associated with HIV-1-specific CD8+ T-cell responses in HIV-1-exposed, uninfected infants in Kenya. *J Infect Dis*. 2011 Dec 1;204(11):1806-10.

10: Githinji N, Maleche-Obimbo E, Nderitu M, Wamalwa DC, **Mbori-Ngacha D**. Utility of total lymphocyte count as a surrogate marker for CD4 counts in HIV-1 infected children in Kenya. *BMC Infect Dis*. 2011 Sep 30;11:259.

11: Slyker JA, John-Stewart GC, Dong T, Lohman-Payne B, Reilly M, Atzberger A, Taylor S, Maleche-Obimbo E, **Mbori-Ngacha D**, Rowland-Jones SL. Phenotypic characterization of HIV-specific CD8+ T cells during early and chronic infant HIV-1 infection. *PLoS One*. 2011;6(5):e20375.

12: Aluisio A, Richardson BA, Bosire R, John-Stewart G, **Mbori-Ngacha D**, Farquhar C. Male antenatal attendance and HIV testing are associated with decreased infant HIV infection and increased HIV-free survival. *J Acquir Immune Defic Syndr*. 2011 Jan;56(1):76-82.

13: Jonnalagadda S, Lohman Payne B, Brown E, Wamalwa D, Maleche Obimbo E, Majiwa M, Farquhar C, Otieno P, **Mbori-Ngacha D**, John-Stewart G. Latent tuberculosis detection by interferon γ release assay during pregnancy predicts active tuberculosis and mortality in human immunodeficiency virus type 1-infected women and their children. *J Infect Dis*. 2010 Dec 15;202(12):1826-35.

14: Kinuthia J, Kiarie JN, Farquhar C, Richardson B, Nduati R, **Mbori-Ngacha D**, John-Stewart G. Cofactors for HIV-1 incidence during pregnancy and postpartum period. *Curr HIV Res*. 2010 Oct;8(7):510-4. PubMed PMID: 20946093;

- 15: Mackelprang RD, Carrington M, John-Stewart G, Lohman-Payne B, Richardson BA, Wamalwa D, Gao X, Majiwa M, **Mbori-Ngacha D**, Farquhar C. Maternal Human Leukocyte Antigen A*2301 Is Associated with Increased Mother-to-Child HIV-1 Transmission. *J Infect Dis*. 2010 Sep 2.
- 16: Wamalwa DC, Obimbo EM, Farquhar C, Richardson BA, **Mbori-Ngacha DA**, Inwani I, Benki-Nugent S, John-Stewart G. Predictors of mortality in HIV-1 infected children on antiretroviral therapy in Kenya: a prospective cohort. *BMC Pediatr*. 2010 May 18;10:33.
- 17: Stringer JS, McConnell MS, Kiarie J, Bolu O, Anekthananon T, Jariyasethpong T, Potter D, Mutsotso W, Borkowf CB, **Mbori-Ngacha D**, Muiruri P, Ong'ech JO, Zulu I, Njobvu L, Jetsawang B, Pathak S, Bulterys M, Shaffer N, Weidle PJ. Effectiveness of non-nucleoside reverse-transcriptase inhibitor-based antiretroviral therapy in women previously exposed to a single intrapartum dose of nevirapine: a multi-country, prospective cohort study. *PLoS Med*. 2010 Feb 16;7(2):e1000233.
- 18: Choi RY, Farquhar C, Juno J, **Mbori-Ngacha D**, Lohman-Payne B, Vouriot F, Wayne S, Tuff J, Bosire R, John-Stewart G, Fowke K. Infant CD4 C868T polymorphism is associated with increased human immunodeficiency virus (HIV-1) acquisition. *Clin Exp Immunol*. 2010 Jun;160(3):461-5.
- 19: Gichuhi S, Bosire R, **Mbori-Ngacha D**, Gichuhi C, Wamalwa D, Maleche-Obimbo E, Farquhar C, Wariua G, Otieno P, John-Stewart GC. Risk factors for neonatal conjunctivitis in babies of HIV-1 infected mothers. *Ophthalmic Epidemiol*. 2009 Nov-Dec;16(6):337-45.
- 20: Farquhar C, **Mbori-Ngacha D**, Overbaugh J, Wamalwa D, Harris J, Bosire R, John-Stewart G. Illness during pregnancy and bacterial vaginosis are associated with in-utero HIV-1 transmission. *AIDS*. 2010 Jan 2;24(1):153-5.
- 21: Slyker JA, Lohman-Payne BL, John-Stewart GC, Maleche-Obimbo E, Emery S, Richardson B, Dong T, Iversen AK, **Mbori-Ngacha D**, Overbaugh J, Emery VC, Rowland-Jones SL. Acute cytomegalovirus infection in Kenyan HIV-infected infants. *AIDS*. 2009 Oct 23;23(16):2173-81.
- 22: Wamalwa DC, Farquhar C, Obimbo EM, Selig S, **Mbori-Ngacha DA**, Richardson BA, Overbaugh J, Egondi T, Inwani I, John-Stewart G. Medication diaries do not improve outcomes with highly active antiretroviral therapy in Kenyan children: a randomized clinical trial. *J Int AIDS Soc*. 2009 Jun 24;12(1):8.
- 23: Obimbo EM, Wamalwa D, Richardson B, **Mbori-Ngacha D**, Overbaugh J, Emery S, Otieno P, Farquhar C, Bosire R, Payne BL, John-Stewart G. Pediatric HIV-1 in Kenya: pattern and correlates of viral load and association with mortality. *J Acquir Immune Defic Syndr*. 2009 Jun 1;51(2):209-15.
- 24: Lohman-Payne B, Slyker JA, Richardson BA, Farquhar C, Majiwa M, Maleche-Obimbo E, **Mbori-Ngacha D**, Overbaugh J, Rowland-Jones S, John-Stewart G. Infants with late breast milk acquisition of HIV-1 generate interferon-gamma responses more rapidly than infants with early peripartum acquisition. *Clin Exp Immunol*. 2009 Jun;156(3):511-7.
- 25: John-Stewart GC, **Mbori-Ngacha D**, Payne BL, Farquhar C, Richardson BA, Emery S, Otieno P, Obimbo E, Dong T, Slyker J, Nduati R, Overbaugh J, Rowland-Jones S. HIV-1-specific cytotoxic T lymphocytes and breast milk HIV-1 transmission. *J*

Infect Dis. 2009 Mar 15;199(6):889-98.

26: Brown ER, Otieno P, **Mbori-Ngacha** DA, Farquhar C, Obimbo EM, Nduati R, Overbaugh J, John-Stewart GC. Comparison of CD4 cell count, viral load, and other markers for the prediction of mortality among HIV-1-infected Kenyan pregnant women. *J Infect Dis.* 2009 May 1;199(9):1292-300.

27: Inwani I, **Mbori-Ngacha** D, Nduati R, Obimbo E, Wamalwa D, John-Stewart G, Farquhar C. Performance of clinical algorithms for HIV-1 diagnosis and antiretroviral initiation among HIV-1-exposed children aged less than 18 months in Kenya. *J Acquir Immune Defic Syndr.* 2009 Apr 15;50(5):492-8.

28: John-Stewart GC, **Mbori-Ngacha** D, Payne BL, Farquhar C, Richardson BA, Emery S, Otieno P, Obimbo E, Dong T, Slyker J, Nduati R, Overbaugh J, Rowland-Jones S. HIV-1-Specific Cytotoxic T Lymphocytes and Breast Milk HIV-1 Transmission. *J Infect Dis.* 2009 Feb 11.

29: Slyker JA, Lohman-Payne BL, Rowland-Jones SL, Otieno P, Maleche-Obimbo E, Richardson B, Farquhar C, **Mbori-Ngacha** D, Emery VC, John-Stewart GC. The detection of cytomegalovirus DNA in maternal plasma is associated with mortality in HIV-1-infected women and their infants. *AIDS.* 2009 Jan 2;23(1):117-24.

30: KIDS-ART-LINC Collaboration. Low risk of death, but substantial program attrition, in pediatric HIV treatment cohorts in Sub-Saharan Africa. *J Acquir Immune Defic Syndr.* 2008 Dec 15;49(5):523-31.

31: Farquhar C, VanCott T, Bosire R, Bermudez C, **Mbori-Ngacha** D, Lohman-Payne B, Nduati R, Otieno P, John-Stewart G. Salivary human immunodeficiency virus (HIV)-1-specific immunoglobulin A in HIV-1-exposed infants in Kenya. *Clin Exp Immunol.* 2008 Jul;153(1):37-43.

32: Mackelprang RD, John-Stewart G, Carrington M, Richardson B, Rowland-Jones S, Gao X, **Mbori-Ngacha** D, Mabuka J, Lohman-Payne B, Farquhar C. Maternal HLA homozygosity and mother-child HLA concordance increase the risk of vertical transmission of HIV-1. *J Infect Dis.* 2008 Apr 15;197(8):1156-61.

33: Cherutich P, Inwani I, Nduati R, **Mbori-Ngacha** D. Optimizing paediatric HIV care in Kenya: challenges in early infant diagnosis. *Bull World Health Organ.* 2008 Feb;86(2):155-60.

34: Richardson BA, Nduati R, **Mbori-Ngacha** D, Overbaugh J, John-Stewart GC. Acute HIV infection among Kenyan infants. *Clin Infect Dis.* 2008 Jan 15;46(2):289-95.

35: Arrivé E, Kyabayinze DJ, Marquis B, Tumwesigye N, Kieffer MP, Azondekon A, Wemin L, Fassinou P, Newell ML, Leroy V, Abrams EJ, Cotton M, Boulle A, **Mbori-Ngacha** D, Dabis F; KIDS-ART-LINC Collaboration. Cohort profile: the paediatric antiretroviral treatment programmes in lower-income countries (KIDS-ART-LINC) collaboration. *Int J Epidemiol.* 2008 Jun;37(3):474-80.

36: Bosire R, Guthrie BL, Lohman-Payne B, Mabuka J, Majiwa M, Wariua G, **Mbori-Ngacha** D, Richardson B, John-Stewart G, Farquhar C. Longitudinal comparison of chemokines in breastmilk early postpartum among HIV-1-infected and uninfected Kenyan women. *Breastfeed Med.* 2007 Sep;2(3):129-38.

37: Eley BS, Tindyebwa D, Kayita J, Kieffer MP, Nduati R, Mwansambo C, Musoke P, Ntumwesigye N, Kinkasa C, **Mbori-Ngacha** D. Contextualising the paediatric HIV

epidemic: a review. *East Afr Med J.* 2006 Dec;83(12):684-8. Review.

38: Walson JL, Brown ER, Otieno PA, **Mbori-Ngacha** DA, Wariua G, Obimbo EM, Bosire RK, Farquhar C, Wamalwa D, John-Stewart GC. Morbidity among HIV-1-infected mothers in Kenya: prevalence and correlates of illness during 2-year postpartum follow-up. *J Acquir Immune Defic Syndr.* 2007 Oct 1;46(2):208-15.

39: Richardson BA, Otieno PA, **Mbori-Ngacha** D, Overbaugh J, Farquhar C, John-Stewart GC. Hormonal contraception and HIV-1 disease progression among postpartum Kenyan women. *AIDS.* 2007 Mar 30;21(6):749-53.

40: Wamalwa DC, Farquhar C, Obimbo EM, Selig S, **Mbori-Ngacha** DA, Richardson BA, Overbaugh J, Emery S, Wariua G, Gichuhi C, Bosire R, John-Stewart G. Early response to highly active antiretroviral therapy in HIV-1-infected Kenyan children. *J Acquir Immune Defic Syndr.* 2007 Jul 1;45(3):311-7.

41: Rainwater SM, Wu X, Nduati R, Nedellec R, Mosier D, John-Stewart G, **Mbori-Ngacha** D, Overbaugh J. Cloning and characterization of functional subtype A HIV-1 envelope variants transmitted through breastfeeding. *Curr HIV Res.* 2007 Mar;5(2):189-97.

42: Bosire R, John-Stewart GC, Mabuka JM, Wariua G, Gichuhi C, Wamalwa D, Ruzinski J, Goodman R, Lohman B, **Mbori-Ngacha** DA, Overbaugh J, Farquhar C. Breast milk alpha-defensins are associated with HIV type 1 RNA and CC chemokines in breast milk but not vertical HIV type 1 transmission. *AIDS Res Hum Retroviruses.* 2007 Feb;23(2):198-203.

43: Drake AL, John-Stewart GC, Wald A, **Mbori-Ngacha** DA, Bosire R, Wamalwa DC, Lohman-Payne BL, Ashley-Morrow R, Corey L, Farquhar C. Herpes simplex virus type 2 and risk of intrapartum human immunodeficiency virus transmission. *Obstet Gynecol.* 2007 Feb;109(2 Pt 1):403-9. Erratum in: *Obstet Gynecol.* 2007 Apr;109(4):1002-3.

44: Otieno PA, Brown ER, **Mbori-Ngacha** DA, Nduati RW, Farquhar C, Obimbo EM, Bosire RK, Emery S, Overbaugh J, Richardson BA, John-Stewart GC. HIV-1 disease progression in breast-feeding and formula-feeding mothers: a prospective 2-year comparison of T cell subsets, HIV-1 RNA levels, and mortality. *J Infect Dis.* 2007 Jan 15;195(2):220-9.

45: Balkus J, Bosire R, John-Stewart G, **Mbori-Ngacha** D, Schiff MA, Wamalwa D, Gichuhi C, Obimbo E, Wariua G, Farquhar C. High uptake of postpartum hormonal contraception among HIV-1-seropositive women in Kenya. *Sex Transm Dis.* 2007 Jan;34(1):25-9.

46: Gichuhi C, Obimbo E, **Mbori-Ngacha** D, Mwatha A, Otieno P, Farquhar C, Wariua G, Wamalwa D, Bosire R, John-Stewart G. Predictors of mortality in HIV-1 exposed uninfected post-neonatal infants at the Kenyatta National Hospital, Nairobi. *East Afr Med J.* 2005 Sep;82(9):447-51.

47: Wu X, Parast AB, Richardson BA, Nduati R, John-Stewart G, **Mbori-Ngacha** D, Rainwater SM, Overbaugh J. Neutralization escape variants of human immunodeficiency virus type 1 are transmitted from mother to infant. *J Virol.* 2006 Jan;80(2):835-44. Erratum in: *J Virol.* 2006 Mar;80(5):2585.

48: Farquhar C, Nduati R, Haigwood N, Sutton W, **Mbori-Ngacha** D, Richardson B, John-Stewart G. High maternal HIV-1 viral load during pregnancy is associated

with reduced placental transfer of measles IgG antibody. *J Acquir Immune Defic Syndr.* 2005 Dec 1;40(4):494-7.

49: Farquhar C, **Mbori-Ngacha** DA, Redman MW, Bosire RK, Lohman BL, Piantadosi AL, Goodman RB, Ruzinski JT, Emery SR, Crudder CH, Overbaugh JM, John-Stewart GC. CC and CXC chemokines in breastmilk are associated with mother-to-child HIV-1 transmission. *Curr HIV Res.* 2005 Oct;3(4):361-9.

50: van't Hoog AH, **Mbori-Ngacha** DA, Marum LH, Otieno JA, Misore AO, Nganga LW, Decock KM. Preventing mother-to-child transmission of HIV in Western Kenya: operational issues. *J Acquir Immune Defic Syndr.* 2005 Nov 1;40(3):344-9.

51: Slyker JA, Lohman BL, **Mbori-Ngacha** DA, Reilly M, Wee EG, Dong T, McMichael AJ, Rowland-Jones SL, Hanke T, John-Stewart G. Modified vaccinia Ankara expressing HIVA antigen stimulates HIV-1-specific CD8 T cells in ELISpot assays of HIV-1 exposed infants. *Vaccine.* 2005 Sep 7;23(38):4711-9.

52: Shaffer N, McConnell M, Bolu O, **Mbori-Ngacha** D, Creek T, Ntummy R, Mazhani L. Prevention of mother-to-child HIV transmission internationally. *Emerg Infect Dis.* 2004 Nov;10(11):2027-8.

53: John-Stewart GC, Nduati RW, Rousseau CM, **Mbori-Ngacha** DA, Richardson BA, Rainwater S, Panteleeff DD, Overbaugh J. Subtype C Is associated with increased vaginal shedding of HIV-1. *J Infect Dis.* 2005 Aug 1;192(3):492-6.

54: Lohman BL, Slyker JA, Richardson BA, Farquhar C, Mabuka JM, Crudder C, Dong T, Obimbo E, **Mbori-Ngacha** D, Overbaugh J, Rowland-Jones S, John-Stewart G. Longitudinal assessment of human immunodeficiency virus type 1 (HIV-1)-specific gamma interferon responses during the first year of life in HIV-1-infected infants. *J Virol.* 2005 Jul;79(13):8121-30.

55: Farquhar C, Kiarie JN, Richardson BA, Kabura MN, John FN, Nduati RW, **Mbori-Ngacha** DA, John-Stewart GC. Antenatal couple counseling increases uptake of interventions to prevent HIV-1 transmission. *J Acquir Immune Defic Syndr.* 2004 Dec 15;37(5):1620-6.

56: Rousseau CM, Nduati RW, Richardson BA, John-Stewart GC, **Mbori-Ngacha** DA, Kreiss JK, Overbaugh J. Association of levels of HIV-1-infected breast milk cells and risk of mother-to-child transmission. *J Infect Dis.* 2004 Nov 15;190(10):1880-8.

57: Farquhar C, Rowland-Jones S, **Mbori-Ngacha** D, Redman M, Lohman B, Slyker J, Otieno P, Obimbo E, Rostron T, Ochieng J, Oyugi J, Bosire R, John-Stewart G. Human leukocyte antigen (HLA) B*18 and protection against mother-to-child HIV type 1 transmission. *AIDS Res Hum Retroviruses.* 2004 Jul;20(7):692-7.

58: Obimbo EM, **Mbori-Ngacha** DA, Ochieng JO, Richardson BA, Otieno PA, Bosire R, Farquhar C, Overbaugh J, John-Stewart GC. Predictors of early mortality in a cohort of human immunodeficiency virus type 1-infected african children. *Pediatr Infect Dis J.* 2004 Jun;23(6):536-43.

59: John-Stewart G, **Mbori-Ngacha** D, Ekpini R, Janoff EN, Nkengasong J, Read JS, Van de Perre P, Newell ML; Ghent IAS Working Group on HIV in Women Children. Breast-feeding and Transmission of HIV-1. *J Acquir Immune Defic Syndr.* 2004 Feb 1;35(2):196-202. Review. Erratum in: *J Acquir Immune Defic Syndr.* 2004 Apr 15;35(5):539.

- 60: Rollins N, Meda N, Becquet R, Coutoudis A, Humphrey J, Jeffrey B, Kanshana S, Kuhn L, Leroy V, **Mbori-Ngacha D**, McIntyre J, Newell ML; Ghent IAS Working Group on HIV in Women and Children. Preventing postnatal transmission of HIV-1 through breast-feeding: modifying infant feeding practices. *J Acquir Immune Defic Syndr*. 2004 Feb 1;35(2):188-95. Review.
- 61: Kiarie JN, Richardson BA, **Mbori-Ngacha D**, Nduati RW, John-Stewart GC. Infant feeding practices of women in a perinatal HIV-1 prevention study in Nairobi, Kenya. *J Acquir Immune Defic Syndr*. 2004 Jan 1;35(1):75-81.
- 62: De Cock KM, Marum E, **Mbori-Ngacha D**. A serostatus-based approach to HIV/AIDS prevention and care in Africa. *Lancet*. 2003 Nov 29;362(9398):1847-9.
- 63: Lohman BL, Slyker J, **Mbori-Ngacha D**, Bosire R, Farquhar C, Obimbo E, Otieno P, Nduati R, Rowland-Jones S, John-Stewart G. Prevalence and magnitude of human immunodeficiency virus (HIV) type 1-specific lymphocyte responses in breast milk from HIV-1-seropositive women. *J Infect Dis*. 2003 Dec 1;188(11):1666-74.
- 64: **Mbori-Ngacha D**, Richardson BA, Overbaugh J, Panteleeff DD, Nduati R, Steele M, John-Stewart G. Short-term effect of zidovudine on plasma and genital human immunodeficiency virus type 1 and viral turnover in these compartments. *J Virol*. 2003 Jul;77(13):7702-5.
- 65: Richardson BA, **Mbori-Ngacha D**, Lavreys L, John-Stewart GC, Nduati R, Panteleeff DD, Emery S, Kreiss JK, Overbaugh J. Comparison of human immunodeficiency virus type 1 viral loads in Kenyan women, men, and infants during primary and early infection. *J Virol*. 2003 Jun;77(12):7120-3.
- 66: Rousseau CM, Nduati RW, Richardson BA, Steele MS, John-Stewart GC, **Mbori-Ngacha DA**, Kreiss JK, Overbaugh J. Longitudinal analysis of human immunodeficiency virus type 1 RNA in breast milk and of its relationship to infant infection and maternal disease. *J Infect Dis*. 2003 Mar 1;187(5):741-7.
- 67: Richardson BA, John-Stewart GC, Hughes JP, Nduati R, **Mbori-Ngacha D**, Overbaugh J, Kreiss JK. Breast-milk infectivity in human immunodeficiency virus type 1-infected mothers. *J Infect Dis*. 2003 Mar 1;187(5):736-40.
- 68: Otieno FA, **Mbori-Ngacha DA**, Wafula EM, Ndinya-Achola JO. Evaluation of a proposed clinical case definition of paediatric acquired immune deficiency syndrome. *East Afr Med J*. 2002 Mar;79(3):111-4.
- 69: Farquhar C, VanCott TC, **Mbori-Ngacha DA**, Horani L, Bosire RK, Kreiss JK, Richardson BA, John-Stewart GC. Salivary secretory leukocyte protease inhibitor is associated with reduced transmission of human immunodeficiency virus type 1 through breast milk. *J Infect Dis*. 2002 Oct 15;186(8):1173-6.
- 70: De Cock KM, **Mbori-Ngacha D**, Marum E. Shadow on the continent: public health and HIV/AIDS in Africa in the 21st century. *Lancet*. 2002 Jul 6;360(9326):67-72. Review. PubMed PMID: 12114058.
- 71: **Mbori-Ngacha D**, Nduati R, John G, Reilly M, Richardson B, Mwatha A, Ndinya-Achola J, Bwayo J, Kreiss J. Morbidity and mortality in breastfed and formula-fed infants of HIV-1-infected women: A randomized clinical trial. *JAMA*. 2001 Nov 21;286(19):2413-20.

- 72: John GC, Richardson BA, Nduati RW, **Mbori-Ngacha D**, Kreiss JK. Timing of breast milk HIV-1 transmission: a meta-analysis. *East Afr Med J*. 2001 Feb;78(2):75-9.
- 73: Nduati R, Richardson BA, John G, **Mbori-Ngacha D**, Mwatha A, Ndinya-Achola J, Bwayo J, Onyango FE, Kreiss J. Effect of breastfeeding on mortality among HIV-1 infected women: a randomised trial. *Lancet*. 2001 May 26;357(9269):1651-5.
- 74: John GC, Bird T, Overbaugh J, Nduati R, **Mbori-Ngacha D**, Rostron T, Dong T, Kostrikis L, Richardson B, Rowland-Jones SL. CCR5 promoter polymorphisms in a Kenyan perinatal human immunodeficiency virus type 1 cohort: association with increased 2-year maternal mortality. *J Infect Dis*. 2001 Jul 1;184(1):89-92.
- 75: Farquhar C, **Mbori-Ngacha DA**, Bosire RK, Nduati RW, Kreiss JK, John GC. Partner notification by HIV-1 seropositive pregnant women: association with infant feeding decisions. *AIDS*. 2001 Apr 13;15(6):815-7.
- 76: John GC, Sheppard H, **Mbori-Ngacha D**, Nduati R, Maron D, Reiner M, Kreiss J. Comparison of techniques for HIV-1 RNA detection and quantitation in cervicovaginal secretions. *J Acquir Immune Defic Syndr*. 2001 Feb 1;26(2):170-5.
- 77 : John GC, Nduati RW, **Mbori-Ngacha DA**, Richardson BA, Panteleeff D, Mwatha A, Overbaugh J, Bwayo J, Ndinya-Achola JO, Kreiss JK. Correlates of mother-to-child human immunodeficiency virus type 1 (HIV-1) transmission: association with maternal plasma HIV-1 RNA load, genital HIV-1 DNA shedding, and breast infections. *J Infect Dis*. 2001 Jan 15;183(2):206-212.
- 78: Nduati R, **Mbori-Ngacha D**, John G, Richardson B, Kreiss J. Breastfeeding in women with HIV. *JAMA*. 2000 Aug 23;284(8):956-7.
- 79: John GC, Rousseau C, Dong T, Rowland-Jones S, Nduati R, **Mbori-Ngacha D**, Rostron T, Kreiss JK, Richardson BA, Overbaugh J. Maternal SDF1 3'A polymorphism is associated with increased perinatal human immunodeficiency virus type 1 transmission. *J Virol*. 2000 Jun;74(12):5736-9.
- 80: Ogutu BR, Smoak BL, Nduati RW, **Mbori-Ngacha DA**, Mwathe F, Shanks GD. The efficacy of pyrimethamine-sulfadoxine (Fansidar) in the treatment of uncomplicated *Plasmodium falciparum* malaria in Kenyan children. *Trans R Soc Trop Med Hyg*. 2000 Jan-Feb;94(1):83-4.
- 81: Nduati R, John G, **Mbori-Ngacha D**, Richardson B, Overbaugh J, Mwatha A, Ndinya-Achola J, Bwayo J, Onyango FE, Hughes J, Kreiss J. Effect of breastfeeding and formula feeding on transmission of HIV-1: a randomized clinical trial. *JAMA*. 2000 Mar 1;283(9):1167-74.
- 82: Neilson JR, John GC, Carr JK, Lewis P, Kreiss JK, Jackson S, Nduati RW, **Mbori-Ngacha D**, Panteleeff DD, Bodrug S, Giachetti C, Bott MA, Richardson BA, Bwayo J, Ndinya-Achola J, Overbaugh J. Subtypes of human immunodeficiency virus type 1 and disease stage among women in Nairobi, Kenya. *J Virol*. 1999 May;73(5):4393-403.
- 83: Overbaugh J, Kreiss J, Poss M, Lewis P, Mostad S, John G, Nduati R, **Mbori-Ngacha D**, Martin H Jr, Richardson B, Jackson S, Neilson J, Long EM, Panteleeff D, Welch M, Rakwar J, Jackson D, Chohan B, Lavreys L, Mandaliya K, Ndinya-Achola J, Bwayo J. Studies of human immunodeficiency virus type 1 mucosal viral shedding and transmission in Kenya. *J Infect Dis*. 1999 May;179 Suppl

3:S401-4. Review.

84: Panteleeff DD, John G, Nduati R, **Mbori-Ngacha** D, Richardson B, Kreiss J, Overbaugh J. Rapid method for screening dried blood samples on filter paper for human immunodeficiency virus type 1 DNA. *J Clin Microbiol.* 1999 Feb;37(2):350-3.

85: Lewis P, Nduati R, Kreiss JK, John GC, Richardson BA, **Mbori-Ngacha** D, Ndinya-Achola J, Overbaugh J. Cell-free human immunodeficiency virus type 1 in breast milk. *J Infect Dis.* 1998 Jan;177(1):34-9.

86: **Mbori-Ngacha** DA. Rational approach to limiting emergence of antimicrobial drug resistance. *East Afr Med J.* 1997 Mar;74(3):187-9. Review.

87: John GC, Nduati RW, **Mbori-Ngacha** D, Overbaugh J, Welch M, Richardson BA, Ndinya-Achola J, Bwayo J, Krieger J, Onyango F, Kreiss JK. Genital shedding of human immunodeficiency virus type 1 DNA during pregnancy: association with immunosuppression, abnormal cervical or vaginal discharge, and severe vitamin A deficiency. *J Infect Dis.* 1997 Jan;175(1):57-62.

88: **Mbori-Ngacha** DA, Onyango FE, Chungu C, Luta M, Oloo AJ, Muga RO. Efficacy of halofantrine in the treatment of uncomplicated falciparum malaria. *East Afr Med J.* 1995 Dec;72(12):796-9.

89: **Mbori-Ngacha** DA, Otieno JA, Njeru EK, Onyango FE. Prevalence of persistent diarrhoea in children aged 3-36 months at the Kenyatta National Hospital, Nairobi, Kenya. *East Afr Med J.* 1995 Nov;72(11):711-4. PubMed PMID: 8904061.