

# CURRICULUM VITAE

**Barbra A. Richardson, PhD**

## 1. Biographical Information

*Address:*

Hans Rosling Center for Population Health  
3980 15<sup>th</sup> Avenue NE, Box 351617  
Seattle, WA 98195-7230  
Phone: 206-550-7540  
Email: barbrar@uw.edu

## 2. Education

Pomona College, Claremont, California, BA Mathematics, 1987  
University of California, Los Angeles, California, MS Biostatistics, 1989  
University of California, Los Angeles, California, PhD Biostatistics, 1993

## 3. Licensure

Not applicable

## 4. Professional Positions

Actuarial Student, Milliman & Robertson, Inc., Portland, Oregon, (summers) 1985-87  
Research Assistant, School of Public Health, University of California, Los Angeles, California, 1987-92  
Teaching Assistant, Department of Biostatistics, University of California, Los Angeles, California, 1988-89  
Statistical Consultant, Dispute Analysis and Corporate Recovery Department, Price Waterhouse, Century City, California, (summers) 1989-90  
Research Assistant, Southern California Injury Prevention Research Center, University of California, Los Angeles, California, 1990-92  
Post-Doctoral Fellow, Department of Medicine, Division of Allergy and Infectious Diseases, University of Washington, Seattle, Washington, 1994-96  
Research Assistant Professor, Department of Biostatistics, University of Washington, Seattle, Washington, 1996-2003  
Joint Assistant Member, Biostatistics, Public Health Sciences, Fred Hutchinson Cancer Research Center, 1998-2004  
Director, Biostatistics Track, Fogarty International AIDS Research and Training Program, University of Washington, 2003-2013  
Research Associate Professor, Department of Biostatistics, University of Washington, Seattle, Washington, 2003-2009  
Joint Associate Member, Biostatistics, Public Health Sciences, Fred Hutchinson Cancer Research Center, 2004-2009  
Research Affiliate, Washington National Primate Research Center, University of Washington, 2008-2012  
Research Professor, Department of Biostatistics, University of Washington, Seattle, Washington, 2009-present  
Professor, Biostatistics, Public Health Sciences, Fred Hutchinson Cancer Research Center, 2009-present  
Adjunct Research Professor, Department of Global Health, University of Washington, 2011-present  
Associate Director, UW CFAR Biometrics Core, 2014-present

## 5. Honors and Awards

Awardee, William Honnold Fellowship for Graduate Study, Pomona College, 1987  
Elected Member, Iota Chapter of the Delta Omega Society (honorary public health society), UCLA, 1989  
Ruth F. Richards Outstanding Student Award, UCLA School of Public Health Alumni Association, 1992  
Finalist, Society for Clinical Trials Student Scholarship, 1992  
International AIDS Society Young Investigator Award, XIII International AIDS Conference, Durban, South Africa, 2000  
Nominee, University of Washington Distinguished Graduate Mentor Award, 2001  
Who's Who in Science and Engineering, 2006-2007  
Who's Who in the World, 2008-2009

## 6. Professional Activities (outside of UW)

Student Representative, Department of Biostatistics, Public Health Student Association, UCLA, 1990-92  
Vice President and Treasurer, Biological Sciences Council, Graduate Student Association, UCLA, 1991-92  
Statistical Reviewer, Journal of Infectious Diseases, 1994-2002  
Member, HIV Prevention Trials Network STD Working Group, 1999-2000  
Member HIV Prevention Trials Network Microbicide Working Group, 2000-2006  
Member, Bordeaux International Working Group on Methodology for Trials and Mother-to-Child Transmission of HIV-1, 2000-2006  
Reviewer, NICHD Review Committee for RFA for a Global Network Research unit for Women's and Children's Health, 2000  
Reviewer, XIV International AIDS Conference, 2002  
Reviewer, Canadian Institutes of Health Research, 2002  
Steering Committee Member, 6th National Symposium of the National Institutes of Health Centers for AIDS Research, 2002  
Member, HIV Vaccine Trials Network Safety Monitoring Board, 2003-2012  
Reviewer, Nestle Foundation, 2003  
Advisor, Workshop to discuss data analysis of studies on infant feeding and HIV-transmission and HIV-free survival, World Health Organization, Geneva, Switzerland, November 2003  
Reviewer, XV International AIDS Conference, 2004  
Chair, DSMB for "Methods for Improving Reproductive Health in Africa" (MIRA) trial, Bill and Melinda Gates Foundation, 2004-2007  
Reviewer, NIAID Review Panel for RFP for the DAIDS Virology Quality Assurance Program, March 2005  
Reviewer, 3rd IAS Conference on HIV Pathogenesis and Treatment, 2005  
Expert Witness, undisclosed case, Round Table Group, 2005-2008  
Member, DSMB for Theratechnologies Inc. Protocol TH9507/III/LIPO/010, 2005-2007  
Member, DSMB for Theratechnologies Inc. Protocol TH9507/III/LIPO/011, 2006-2008  
Chair, DSMB for "Contraceptive Effectiveness and Safety Study of the SILCS Diaphragm: the Pivotal Study", CONRAD, 2007-2009  
Regional Committee Member, WNAR of IBS, 2005-2007  
Scientific Reviewer, Bill and Melinda Gates Foundation, 2008  
Chair, DSMB for "Sperm suppression and contraceptive protection provided by Norethisterone Enantate (Net-En) combined with Testosterone Undecanoate (TU) in healthy men", CONRAD and WHO, 2008-2011  
Member, DSMB for "An open-label randomized study of pneumococcal conjugate vaccination in HIV in comparison to polysaccharide vaccine boosting in previously vaccinated patients", Tri-Service AIDS Research Clinical Consortium, NIH, U.S. Military HIV Research Program, 2008.  
Member, DSMB for "Prospective study on the incidence, predictors, and characteristics of Methicillin-resistant Staphylococcus aureus infections and a randomized double blind study on decolonization procedures for prevention of MRSA infections among HIV-infected persons, Infectious Disease Clinical Research Program, Naval Medical Center, San Diego, 2009-2011.

Reviewer, NICHD Special Emphasis Panel: U01 and U10 applications on “Pelvic Floor Disorders Network Centers and Data Coordinating Centers, November 2010.

Member, DSMB for “Pericoital oral contraception with Levonorgestrel: A prospective, open-label, single-arm, multicenter study to evaluate efficacy, safety and acceptability”. World Health Organization Study Number A65719. 2011-2013.

Member, DSMB for “A phase 2b randomized, double-blind, double-dummy trial of 100 or 200 mg once-daily doses of Cenicriviroc (CVC, TBR-652) or once-daily EFV, each with open-label FTC/TDF in HIV-1 infected, antiretroviral treatment-naïve, adult patients with only CCR5-tropic virus. Tobira Therapeutics, Inc. 2011-2018.

Reviewer, Grant submissions to Office of Research and Development, Veterans Health Administration, March 2012

Member, DSMB for “EGRIFTA® Phase IV Diabetic Retinopathy and Long Term Observational Studies (EMR200147-500 and EMR200147-501)”. EMD Serono, Inc./Theratechnologies Inc. 2012-2018.

Expert Witness, undisclosed case, Kelley Drye Attorneys, 2013-2014

Expert Witness, undisclosed case, Pepper Hamilton LLC, 2014-2016

Member, DSMB for “Protocol 14-0014, A Randomized Open-label Phase 2 Study to Evaluate the Efficacy and Safety of a Single Dose of Oral AZD0914 Compared to Intramuscular Ceftriaxone in the Treatment of Male and Female Subjects with Uncomplicated Gonorrhea”. DMID, NIAID, 2014-2016

Reviewer, Qatar National Research Fund, 2015, 2020

Reviewer, King’s Health Partners R&D Challenge Fund, 2016

Member, IDMC, Gilead Sciences Clinical Trial, 2017-2019

Statistical Consultant, PATH, 2017-2019

Chair, Study Monitoring Committee, Adolescent Trials Network, 2019-present

Member, Mock FDA Panel, Gilead Sciences, 2019

Member, DSMB for “Seattle Flu Study and homeless shelter intervention sub-study”, Brotman-Baty Institute, UW, Seattle Children’s, FHRC, 2019-present

Member, COVID-19 and Pediatric/Maternal Fetal Medicine Working Group, Infectious Diseases Clinical Research Consortium (IDCRC), 2020-present

Member, Washington State COVID-19 Modeling Working Group, 2020-present

Member, NIAID COVID-19 DSMB, 2020-present

### Journal Review:

#### Editorial Board:

*AIDS*, 2006-2010

*Statistical Communications in Infectious Diseases*, Editor, 2015-present

#### Referee:

*AIDS*

*American Journal of Epidemiology*

*Antiviral Therapy*

*Biometrics*

*Clinical Trials: Journal of the Society for Clinical Trials*

*Expert Review of Anti-infective Therapy*

*Journal of Acquired Immune Deficiency Syndromes*

*Journal of the American Medical Association*

*Journal of Infectious Diseases*

*Journal of Pregnancy*

*Journal of Virological Methods*

*Journal of Virology*

*Nature*

*Nature Communications*

*Nature Medicine*

*PLoS One*

*Sexually Transmitted Diseases*  
*Statistics in Medicine*  
*The American Journal of the Medical Sciences*  
*The Lancet*  
*The Lancet Infectious Diseases*  
*Frontiers in Public Health*

## 7. Bibliography

### a) Refereed research articles

1. Blake J, **Richardson BA**, Bhattacharya JF: Number of siblings and sociability. *J Marriage Fam* 53:271-283, 1991.
2. Sorenson SB, **Richardson BA**, Peterson JG: Race/ethnicity patterns in the homicide of children in Los Angeles, 1980 through 1989. *Am J Public Health* 83:725-727, 1993. PMID: PMC1694702.
3. Nduati RW, John GC, **Richardson BA**, Overbaugh J, Welch M, Achola JN, Moses S, Holmes K, Onyango F, Kreiss JK: Human immunodeficiency virus type 1-infected cells in breast milk: association with immunosuppression and vitamin A deficiency. *J Infect Dis* 172:1461-1468, 1995. PMID: PMC3358135.
4. **Richardson BA**, Flack VF: The analysis of incomplete data in the three-period two-treatment crossover design for clinical trials. *Stat Med* 15:127-143, 1996.
5. John GC, Nduati RW, Mbori-Ngacha D, Overbaugh J, Welch M, **Richardson BA**, Ndinya-Achola J, Bwayo 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* 175:57-62, 1997. PMID: PMC3372419.
6. Martin HL, Stevens CE, **Richardson BA**, Rugamba D, Nyange PM, Mandaliya K, Ndinya-Achola JO, Kreiss JK: Safety of a nonoxynol-9 vaginal gel in Kenyan prostitutes: A randomized clinical trial. *Sex Trans Dis*, 24:279-283, 1997.
7. Jackson DJ, Rakwar JP, **Richardson BA**, Mandaliya K, Chohan BH, Bwayo JJ, Ndinya-Achola JO, Martin HL, Moses S, Kreiss JK: Decreased incidence of sexually transmitted diseases among trucking company workers in Kenya: Results of a behavioural risk reduction programme. *AIDS* 11:903-909, 1997.
8. Lewis P, Nduati R, Kreiss JK, John GC, **Richardson BA**, Mbori-Ngacha D, Ndinya-Achola JO, Overbaugh J: Cell-free human immunodeficiency virus type 1 in breast milk. *J Infect Dis*, 177:34-39, 1998. PMID: PMC3358132.
9. **Richardson BA**, Martin HL, Stevens CE, Hillier SL, Mwatha AK, Chohan BH, Nyange PM, Mandaliya K, Achola JO, Kreiss JK: Use of Nonoxynol-9 and changes in vaginal lactobacilli. *J Infect Dis*, 178:441-445, 1998.
10. Martin HL, Nyange PM, **Richardson BA**, Lavreys L, Mandaliya K, Jackson DJ, Ndinya-Achola JO, Kreiss JK: Hormonal contraception, sexually transmitted diseases, and risk of heterosexual transmission of human immunodeficiency virus type 1. *J Infect Dis*, 178:1053-1059, 1998.
11. Polacino P, Stallard V, Klaniecki JE, Montefiori D, Langlois AJ, **Richardson BA**, Overbaugh J, Morton WR, Benveniste RE, Hu SL: Limited breadth of the protective immunity elicited by SIVmne gp160 vaccines in a combination immunization regimen. *J Virol*, 73:618-630, 1999. PMID: PMC103868.
12. 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*, 37:350-353, 1999. PMID: PMC84304.
13. Polacino P, Stallard V, Montefiori DC, Brown CR, **Richardson BA**, Morton WR, Benveniste RE, Hu SL: Protection of macaques against intrarectal infection by a combination immunization regimen with recombinant SIVmne gp160 vaccines. *J Virol*, 73:3134-3146, 1999. PMID: PMC104075.

14. 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*, 73:4393-4403, 1999. PMID: PMC104220.
15. Overbaugh J, Kreiss J, Poss M, Lewis P, Mostad S, John G, Nduati R, Mbori-Ngacha D, Martin H, **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*, 179:S401-S404, 1999.
16. Polacino P, Stallard V, Klaniecki JE, Pennathur S, Montefiori DC, Langlois AJ, **Richardson BA**, Morton WR, Benveniste RE, Hu SL: Role of immune responses against the envelope and the core antigens of SIV<sub>mne</sub> in protection against homologous cloned and uncloned virus challenge in macaques. *J Virol*, 73:8201-8215, 1999. PMID: PMC112838.
17. **Richardson BA**, Morrison CS, Sekadde-Kigonda C, Sinei S, Overbaugh J, Panteleeff DD, Weiner DH, Kreiss JK: Effect of intrauterine device use on cervical shedding of HIV-1 DNA. *AIDS*, 13:2091-2098, 1999.
18. Martin HL, **Richardson BA**, Nyange PM, Lavreys L, Hillier SL, Chohan B, Mandaliya K, Ndinya-Achola JO, Bwayo JJ, Kreiss JK: Vaginal lactobacilli, microbial flora, and risk of HIV-1 and STD acquisition. *J Infect Dis*, 180:1863-1868, 1999.
19. 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*, 283:1167-1174, 2000.
20. 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*, 74:5736-5739, 2000. PMID: PMC112064.
21. Emery S, Bodrug S, **Richardson BA**, Giachetti C, Bott MA, Panteleeff D, Jagodzinski LL, Michael NL, Nduati R, Bwayo J, Kreiss JK, Overbaugh J: Evaluation of the performance of the Gen-Probe Human Immunodeficiency Virus Type 1 Viral Load Assay using primary subtype A, C, and D isolates from Kenya. *J Clin Microbiol*, 38:2688-2695, 2000. PMID: PMC87000.
22. **Richardson BA**, Hughes JP: Product limit estimation for infectious disease data when the test for the outcome is measured with uncertainty. *Biostatistics*, 1:341-354, 2000.
23. Baeten JM\*\*, **Richardson BA**, Martin HL, Nyange PM, Lavreys L, Ngugi EN, Mandaliya K, Ndinya-Achola JO, Bwayo JJ, Kreiss JK: Trends in HIV-1 incidence in a cohort of prostitutes in Kenya: Implications for HIV-1 vaccine efficacy trials. *J Acquir Immune Defic Syndr*, 24:458-464, 2000. \*\*Paper written by student as an independent study project mentored by Dr. Richardson.
24. Hughes JP, **Richardson BA**: Analysis of a randomized trial to prevent vertical transmission of HIV-1. *JASA*, 95:1032-1043, 2000.
25. 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*, 183:206-212, 2001.

26. John GC<sup>†</sup> and **Richardson BA**<sup>†</sup>, Nduati RW, Mbori-Ngacha D, Kreiss JK: Timing of breast milk HIV-1 transmission: A meta-analysis. *E Afr Med J*, 78:21-25, 2001. <sup>†</sup>Co-first authorship: both authors contributed equally to this work.
27. Nduati R, **Richardson BA**, John G, Mbori-Ngacha D, Mwatha T, Ndinya-Achola J, Bwayo J, Onyango FE, Kreiss J: Effect of Breastfeeding on mortality among HIV-1 infected women: A randomised clinical trial. *Lancet*, 357:1651-1655, 2001. PMID: PMC3372408.
28. 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 HIV-1 cohort: association with increased 2-year maternal mortality. *J Infect Dis*, 184:89-92, 2001. PMID: PMC3366112.
29. **Richardson BA**, Lavreys L, Martin HL, Stevens CE, Ngugi E, Mandaliya K, Bwayo J, Ndinya-Achola J, Kreiss JK: Evaluation of a low dose Nonoxynol-9 gel for the prevention of sexually transmitted diseases: A randomized clinical trial. *Sex Transm Dis*, 28:394-400, 2001.
30. Baeten JM\*\*, Nyange PM, **Richardson BA**, Lavreys L, Chohan B, Martin HL, Mandaliya K, Ndinya-Achola JO, Bwayo JJ, Kreiss JK: Hormonal contraception and risk of sexually transmitted disease acquisition: Results from a prospective study. *Am J Obstet Gynecol*, 185:380-385, 2001. \*\*Paper written by student as an independent study project mentored by Dr. Richardson.
31. 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: Results of a randomized clinical trial. *JAMA*, 286:2413-2420, 2001. PMID: PMC3358136.
32. The Ghent Group (in alphabetical order): Alioum A, Dabis F, Dequae-Merchadou L, Haverkamp G, Hudgens M, Hughes J, Karon J, Leroy V, Newell M, **Richardson B**, Weverling G: Estimating the efficacy of interventions to prevent mother-to-child transmission of HIV in breast-feeding populations: development of a consensus methodology. *Stat Med*, 20: 3539-3556, 2001
33. **Richardson BA**: Editorial: Nonoxynol-9 as a vaginal microbicide for prevention of sexually transmitted infections: It's time to move on. *JAMA*, 287: 1171-1172, 2002.
34. Baeten JM, McClelland RS, Overbaugh J, **Richardson BA**, Emery S, Lavreys L, Mandaliya K, Bankson DD, Ndinya-Achola JO, Bwayo JJ, Kreiss JK: Vitamin A supplementation and HIV-1 shedding in women: results of a randomized clinical trial. *J Infect Dis*, 185: 1187-1191, 2002.
35. McClelland RS, Wang CC, **Richardson BA**, Corey L, Ashley R, Mandaliya K, Ndinya-Achola J, Bwayo JJ, Kreiss JK: A prospective study of hormonal contraceptive use and cervical shedding of Herpes Simplex Virus in HIV-1 seropositive women. *J Infect Dis*, 185, 1822-1825, 2002.
36. Lavreys L, Baeten JM, Overbaugh J, Panteleeff DD, Chohan B, **Richardson B**, Mandaliya K, Ndinya-Achola J, Kreiss JK: Virus load during primary Human Immunodeficiency Virus (HIV) type 1 infection is related to the severity of acute HIV illness in Kenyan women. *Clin Infect Dis*, 35, 77-81, 2002.
37. Baeten JM, Chohan BH, Lavreys L, Rakwar JP, Ashley R, **Richardson BA**, Mandaliya K, Bwayo JJ, Kreiss JK: Correlates of Human Herpesvirus 8 seropositivity among heterosexual men in Kenya. *AIDS*, 16, 2073-2078, 2002.
38. Baeten JM, McClelland RS, **Richardson BA**, Bankson DD, Lavreys L, Wener MH, Overbaugh J, Mandaliya K, Ndinya-Achola JO, Bwayo JJ, Kreiss JK: Vitamin A deficiency and the acute phase response among HIV-1 infected and uninfected women in Kenya. *J Acquir Immune Defic Syndr*, 31, 243-249, 2002.

39. Farquhar C, VanCott T, Mbori-Ngacha D, Horani L, Bosire R, Kreiss J, **Richardson B**, John-Stewart GC: Salivary secretory leukocyte protease inhibitor (SLPI) is associated with reduced transmission of human immunodeficiency virus type 1 through breast milk. *J Infect Dis*, 186, 1173-1176, 2002. PMID: PMC3382060.
40. Panteleeff DD, Emery S, **Richardson BA**, Bodrug S, Kreiss JK, Overbaugh J: Validation of performance of the Gen-Probe HIV-1 Viral Load Assay with genital swabs and breastmilk samples. *J Clin Micro*, 40, 3929-3937, 2002. PMID: PMC139629.
41. McClelland RS, Wang CC, Overbaugh J, **Richardson BA**, Corey L, Ashley R, Mandaliya K, Ndinya-Achola J, Bwayo JJ, Kreiss JK: Association between cervical shedding of Herpes Simplex Virus and HIV-1. *AIDS*, 16, 2425-2430, 2002.
42. Malonza IM, **Richardson BA**, Kreiss JK, Bwayo JJ, John-Stewart GC: The effect of rapid HIV-1 testing on uptake of perinatal HIV-1 interventions: a randomized clinical trial. *AIDS*, 17, 113-118, 2003. PMID: PMC3380077.
43. Kiarie JN, Kreiss JK, **Richardson BA**, John-Stewart GC: Compliance with antiretroviral regimens to prevent perinatal HIV-1 transmission in Kenya. *AIDS*, 17, 65-71, 2003. PMID: PMC3387271.
44. Lavreys L, Chohan B, Ashley R, **Richardson BA**, Corey L, Mandaliya K, Ndinya-Achola JO, Kreiss JK: Human Herpesvirus type 8: seroprevalence and correlates in prostitutes in Mombasa, Kenya. *J Infect Dis*, 187, 359-363, 2003.
45. **Richardson BA**, John-Stewart GC, Hughes JP, Nduati R, Mbori-Ngacha D, Overbaugh J, Kreiss JK: Breastmilk infectivity in human immunodeficiency virus type-1 infected mothers. *J Infect Dis*, 187, 736-740, 2003. PMID: PMC3382109.
46. Rousseau CM, Nduati RW, **Richardson BA**, John-Stewart GC, Mbori-Ngacha DA, Steele MS, Kreiss JK, Overbaugh J. Longitudinal analysis of human immunodeficiency virus type 1 RNA in breastmilk and of its relationship to infant infection and maternal disease. *J Infect Dis*, 187, 741-747, 2003. PMID: PMC3384731.
47. **Richardson BA**, Hughes JP: Modeling breastmilk infectivity in HIV-1 infected mothers. *Biometrics*, 59, 179-185, 2003.
48. **Richardson BA**, Mbori-Ngacha D, Lavreys L, John-Stewart GC, Nduati R, Panteleeff DD, Emery S, Kreiss JK, Overbaugh: Comparison of HIV-1 viral loads in Kenyan women, men, and infants during primary and early infection. *J Virol*, 77, 7120-7123, 2003. PMID: PMC156211.
49. 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*, 77, 7702-7705, 2003. PMID: PMC164813.
50. Tabet SR, Callahan MM, Mauck CK, Gai F, Coletti AS, Profy AT, Moench TR, Soto-Torres LE, Poindexter III AN, Frezieres RG, Walsh TL, Kelly CW, **Richardson BA**, van Damme L, Celum CL: Safety and acceptability of penile application of 2 candidate topical microbicides, BufferGel™ and PRO 2000 Gel: 3 randomized trials in healthy, low-risk men and HIV-positive men. *J Acquir Immune Defic Syndr*, 33, 476-483, 2003.
51. The Ghent Group (in alphabetical order): Alioum A, Dabis F (chairman), Dequae-Merchadou L, Haverkamp G, Hudgens M, Hughes J, Karon J, Leroy V, Newell ML, **Richardson B**, Weverling GJ: Estimating the efficacy of interventions to prevent mother-to-child transmission of HIV in breast-feeding populations. *Am J Epidemiol*, 158, 596-605, 2003.



52. Sagar M, Lavreys L, Baeten JM, **Richardson BA**, Mandaliya K, Chohan BH, Kreiss JK, Overbaugh J: Infection with multiple human immunodeficiency virus type 1 variants is associated with faster disease progression. *J Virol*, 77, 12921-12926, 2003. PMID: PMC262567.
53. Meier AS\*, **Richardson BA**, Hughes JP: Discrete proportional hazards models for uncertain outcomes. *Biometrics*, 59, 947-954, 2003. \*Dissertation work under Dr. Richardson's supervision.
54. Mayer KH, Karim SA, Kelly C, Maslankowski L, Rees H, Profy AT, Day J, Welch J, Rosenberg Z, for the HIV Prevention Trials Network (HPTN) 020 Protocol Team: Safety and tolerability of vaginal PRO 2000 gel in sexually active HIV-uninfected and abstinent HIV-infected women. *AIDS*, 17, 321-329, 2003.
55. 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*, 35, 75-81, 2004. PMID: PMC3380107.
56. Lavreys L, Baeten JM, Kreiss JK, **Richardson BA**, Chohan BH, Hassan W, Panteleeff DD, Mandaliya K, Ndinya-Achola JO, Overbaugh J: Injectable contraceptive use and genital ulcer disease during the early phase of human immunodeficiency virus (HIV) type 1 infection increase plasma virus load in women. *J Infect Dis*, 189, 303-311, 2004.
57. Baeten JM, **Richardson BA**, Bankson DD, Wener MH, Kreiss JK, Lavreys L, Mandaliya K, Bwayo JJ, McClelland RS: Use of serum retinol binding protein for prediction of Vitamin A deficiency: Effects of HIV-1 infection, protein malnutrition, and the acute phase response. *Am J Clin Nutr*, 79, 218-225, 2004.
58. Sagar M, Lavreys L, Baeten JM, **Richardson BA**, Mandaliya K, Ndinya-Achola JO, Kreiss JK, Overbaugh J: Identification of modifiable factors that affect the genetic diversity of the transmitted HIV-1 population. *AIDS*, 18, 615-619, 2004.
59. Baeten JM, McClelland RS, Corey L, Overbaugh J, Lavreys L, **Richardson BA**, Wald A, Mandaliya K, Bwayo JJ, Kreiss JK: Vitamin A supplementation and genital shedding of herpes simplex virus among human immunodeficiency virus type 1 infected women: A randomized clinical trial. *J Infect Dis*, 189, 1466-1471, 2004.
60. Chohan BH, Taylor H, Obrigewitch R, Lavreys L, **Richardson BA**, Mandaliya KN, Bwayo JJ, Kreiss JK, Morrow RA: Human Herpesvirus 8 seroconversion in Kenyan women by enzyme-linked immunosorbent assay and immunofluorescence assay. *J Clin Virol*, 30, 137-144, 2004.
61. Mossman SP, Pierce CC, Watson AJ, Robertson MN, Montefiori DC, Kuller L, **Richardson BA**, Bradshaw JD, Munn RJ, Hu SL, Greenberg PD, Benveniste RE, Haigwood NL: Protective immunity to SIV challenge elicited by vaccination of macaques with multigenic DNA vaccines producing virus-like particles. *AIDS Res Hum Retroviruses*, 20, 425-434, 2004.
62. The Breastfeeding and HIV International Transmission Study (BHITS) Group. Late postnatal transmission of HIV-1 through breastfeeding: An individual patient data meta-analysis. *J Infect Dis*, 189, 2154-2166, 2004.
63. Benki S, Mostad SB, **Richardson BA**, Mandaliya K, Kreiss JK, Overbaugh J: Cyclic shedding of HIV-1 RNA in cervical secretions during the menstrual cycle. *J Infect Dis*, 189, 2192-2201, 2004.
64. Haigwood NL, Montefiori DC, Sutton WF, McClure J, Watson AJ, Voss G, Hirsch VM, **Richardson BA**, Letvin NL, Hu SL, Johnson PR: Passive immunotherapy in simian immunodeficiency virus-infected macaques accelerates the development of neutralizing antibodies. *J Virol* 78, 5983-5995, 2004. PMID: PMC415787.

65. 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* 23, 536-543, 2004. PMID: PMC3380074.
66. Taylor MM, Chohan B, Lavreys L, Hassan W, Huang ML, Corey L, Morrow RA, **Richardson BA**, Mandaliya K, Ndinya-Achola J, Bwayo J, Kreiss J: Shedding of Human Herpesvirus-8 in oral and genital secretions from HIV-1-seropositive and -seronegative Kenyan women. *J Infect Dis* 190, 484-488, 2004.
67. Fleming TR, **Richardson BA**: Some design issues in trials of microbicides for the prevention of HIV infection. *J Infect Dis*. 190, 666-674, 2004.
68. Newell M-L, Coovadia H, Cortina-Borja M, Rollins N, Gaillard P, Dabis F, for the Ghent International AIDS Society (IAS) working group on HIV infection in women and children: Mortality of infected and uninfected infants born to HIV infected mothers in Africa: a pooled analysis. *Lancet* 364, 1236-1243, 2004.
69. Jayaraman P, Mohan D, Polacino P, Kuller L, Bielefeldt-Ohmann H, **Richardson B**, Anderson D, Hu SL, Haigwood NL: Perinatal transmission of SHIV-SF162P3 in *Macaca nemestrina*. *J Med Primatol* 33, 243-250, 2004.
70. Rousseau CM, Nduati R, **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*, 190, 1880-1888, 2004. PMID: PMC3384735.
71. Hoffman IF, Taha TE, Padian N, Kelly C, Welch JD, Martinson FE, Kumwenda N, Mutevedzi T, Rosenberg ZF, Chilangozi DA, Brown J, Chirenje M, **Richardson BA**: Nonoxynol-9 100 mg gel: multi-site safety study from sub-Saharan Africa. *AIDS* 18, 2191-2195, 2004.
72. Farquhar C, Kiarie JN, **Richardson BA**, Kabura M, John FN, Nduati R, Mbori-Ngacha DA, John-Stewart GC: Antenatal couple counseling increases uptake of interventions to prevent HIV-1 transmission. *J Acquir Immune Defic Syndr* 37, 1620-1626, 2004. PMID: PMC3384734.
73. McClelland RS, Baeten JM, Overbaugh J, **Richardson BA**, Mandaliya K, Emery S, Lavreys L, Ndinya-Achola JO, Bankson DD, Bwayo JJ, Kreiss JK: Micronutrient supplementation increases genital tract shedding of HIV-1 in women: results of a randomized trial. *J Acquir Immune Defic Syndr* 37, 1657-1663, 2004.
74. **Richardson BA**, Overbaugh J: Basic statistical considerations in virological experiments. *J Virol* 79, 669-676, 2005. PMID: PMC538531.
75. Baeten JM\*\*, **Richardson BA**, Lavreys L, Rakwar JP, Mandaliya K, Bwayo JJ, Kreiss JK: Female-to-male infectivity of HIV-1 among circumcised and uncircumcised Kenyan men. *J Infect Dis* 191, 546-553, 2005. \*\*Paper written by student as an independent study project mentored by Dr. Richardson.
76. Chohan B, Lang D, Sagar M, Korber B, Lavreys L, **Richardson B**, Overbaugh J: Selection for HIV-1 envelope glycosylation variants with shorter V1-V2 loop sequences occurs during transmission of certain genetic subtypes and may impact viral RNA levels. *J Virol* 79, 6528-6531, 2005. PMID: PMC1091724.
77. Martin HL, **Richardson BA**, Mandaliya K, Overbaugh J, Kreiss JK: The early work on hormonal contraception use and HIV-1 acquisition. *JAIDS* 38, S12-S14, 2005.
78. Morrison CS, **Richardson BA**, Celentano DD, Chipato T, Mmro F, Mugerwa R, Padian NS, Ruggao S, Salata RA: Prospective clinical trials designed to assess the use of hormonal contraceptives and the risk of HIV acquisition. *JAIDS* 38, S17-S18, 2005.

79. Baeten JM, Lavreys L, Sagar M, Kreiss JK, **Richardson BA**, Chohan B, Panteleeff D, Mandaliya K, Ndinya-Achola JO, Overbaugh J: Effect of contraceptive methods on natural history of HIV: Studies from the Mombasa Cohort. *JAIDS* 38, S18-S20, 2005.
80. Ou S, Hughes JP, **Richardson BA**: Methods for assessing the accuracy of PCR-based tests: Comparisons and extensions. *Stat Med* 24, 1755-1764, 2005.
81. Evans DT, Bricker JE, Sanford HB, Lang S, Carville A, **Richardson BA**, Piatak Jr. M, Lifson JD, Mansfield KG, Desrosiers RC: Immunization of macaques with single-cycle simian immunodeficiency virus (SIV) stimulates diverse virus-specific immune responses and reduces viral loads after challenge with SIV<sub>mac239</sub>. *J Virol* 79, 7707-7720, 2005. PMID: PMC1143664.
82. 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 HIV-1-specific gamma interferon responses during the first year of life in HIV-1-infected infants. *J Virol* 79, 8121-8130, 2005. PMID: PMC1143755.
83. John-Stewart GC, Nduati R, Rousseau C, Mbori-Ngacha D, **Richardson BA**, Rainwater S, Panteleeff DD, Overbaugh J: Subtype C is associated with increased vaginal shedding of HIV-1. *J Infect Dis* 192, 492-496, 2005. PMID: PMC3387274.
84. Chung MH, Kiarie JN, **Richardson BA**, Lehman D, Overbaugh J, John-Stewart GC: Breast milk HIV-1 suppression and decreased transmission: a randomized trial comparing HIVNET 012 nevirapine versus short-course zidovudine. *AIDS* 19, 1415-1422, 2005. PMID: PMC3381340.
85. 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* 40, 494-497, 2005. PMID: PMC3382062.
86. Wu X, Parast AB, **Richardson BA**, Nduati R, John-Stewart GC, Mbori-Ngacha D, Rainwater SMJ, Overbaugh J: Neutralization escape variants of human immunodeficiency virus type 1 are transmitted from mother to infant. *J Virol*, 80, 835-844, 2006. PMID: PMC1346878.
87. Lavreys L, Baeten JM, Chohan V, McClelland RS, Hassan WM, **Richardson BA**, Mandaliya K, Ndinya-Achola JO, Overbaugh J: Higher set point plasma viral load and more severe acute HIV-1 illness predict mortality among HIV-1 infected African women. *Clin Infect Dis*, 42, 1333-1339, 2006.
88. McClelland RS, Baeten JM, **Richardson BA**, Lavreys L, Emery S, Mandaliya K, Ndinya-Achola JO, Overbaugh J: A comparison of genital HIV-1 shedding and sexual risk behavior among Kenyan women based on eligibility for initiation of HAART according to WHO guidelines. *J Acquir Immune Defic Syndr*, 41, 611-615, 2006.
89. Baeten JM, Wener MH, Bankson DD, Lavreys L, **Richardson BA**, Mandaliya K, Bwayo JJ, McClelland RS: HIV-1 infection alters the retinol-binding protein:transthyretin ratio even in the absence of the acute phase response. *J Nutr*, 136, 1624-1629, 2006.
90. Kiarie JN, Farquhar C, **Richardson BA**, Kabura MN, John FN, Nduati RW, John-Stewart GC: Domestic violence and prevention of mother-to-child transmission of HIV-1. *AIDS*, 20, 1763-1769, 2006. PMID: 3384736.
91. McClelland RS, Hassan WM, Lavreys L, **Richardson BA**, Mandaliya K, Ndinya-Achola J, Jaoko W, Kurth AE, Baeten JM: HIV-1 acquisition and disease progression are associated with decreased high-risk sexual behavior among Kenyan female sex workers. *AIDS*, 20, 1969-1973, 2006.

92. Kumwenda N, Hoffman I, Chirenje M, Kelly C, Coletti A, Ristow A, Martinson F, Brown J, Chilongozi D, **Richardson B**, Rosenberg Z, Padian N, Taha T: HIV incidence among women of reproductive age in Malawi and Zimbabwe. *Sex Transm Dis*, 33, 646-651, 2006.
93. Lavreys L, Baeten JM, Panteleeff DD, **Richardson BA**, McClelland RS, Chohan V, Mandaliya K, Ndinya-Achola JO, Overbaugh J: High levels of cervical HIV-1 RNA during early HIV-1 infection. *AIDS*, 20, 2389-2390, 2006.
94. Benki S, McClelland RS, Emery S, Baeten JM, **Richardson BA**, Lavreys L, Mandaliya K, Overbaugh J: Quantification of genital HIV-1 DNA in specimens from women with low plasma HIV-1 RNA levels typical of HIV-1 non-transmitters. *J Clin Microbiol*, 44, 4357-4362, 2006. PMID: PMC1698424.
95. Morrison CS, **Richardson BA**, Mmiro F, Chipato T, Celentano D, Luoto J, Mugerwa R, Padian N, Rugpao S, van der Pol B, Brown J, Cornelisse P, Salata R, for the Hormonal Contraception and the Risk of HIV Acquisition (HC-HIV) Study Group: Hormonal contraception and the risk of HIV acquisition. *AIDS*, 21, 85-95, 2007.
96. Jayaraman P, Zhu T, Misher L, Mohan D, Kuller L, Polacino P, **Richardson B**, Bielefeldt-Ohmann H, Anderson D, Hu SL, Haigwood NL: Evidence for persistent, occult infection in neonatal macaques following perinatal transmission of SHIV-SF162P3. *J Virol*, 81, 822-834, 2007. PMID: PMC1797486.
97. 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*, 195, 220-229, 2007. PMID: PMC3394541.
98. **Richardson BA**, Hughes JP, Benki S. Statistical methods for determining the accuracy of quantitative PCR-based tests. *Stat Med*, 26, 895-902, 2007.
99. Graham SM, Holte S, Peshu N, **Richardson BA**, Panteleeff D, Jaoko W, Ndinya-Achola J, Mandaliya K, Overbaugh J, McClelland RS: Initiation of antiretroviral therapy leads to a rapid decline in cervical and vaginal HIV-1 shedding. *AIDS*, 21, 501-507, 2007.
100. **Richardson BA**, Otieno PA, Mbori-Ngacha D, Overbaugh J, Farquhar C, John-Stewart GC: Hormonal contraceptive use and HIV-1 disease progression among postpartum Kenyan women. *AIDS*, 21: 749-753, 2007. PMID: PMC3380082.
101. Morrison CS, Wang J, Van Der Pol B, Padian N, Salata R, **Richardson BA**: Pregnancy and the risk of HIV acquisition among women in Uganda and Zimbabwe. *AIDS*, 21: 1027-1034, 2007.
102. Hassan WM, Lavreys L, Chohan V, **Richardson BA**, Mandaliya K, Ndinya-Achola JO, Kiarie J, Jaoko W, Holmes KK, McClelland RS: Associations between intravaginal practices and bacterial vaginosis in Kenyan sex workers without symptoms of vaginal infections. *Sex Transm Dis*, 34, 384-388, 2007.
103. Wamalwa D, Farquhar C, Obimbo E, Selig S, Mbori-Ngacha D, **Richardson BA**, Overbaugh J, Emery S, Selig S, Wariua G, Guchuhi C, Bosire R, John-Stewart G: Early response to highly active antiretroviral therapy in HIV-1 infected Kenyan children. *J Acquire Immune Defic Syndr*, 45, 311-317, 2007. PMID: PMC3380073.
104. Graham SM, Baeten JM, **Richardson BA**, Bankson DD, Lavreys L, Ndinya-Achola JO, Mandaliya K, Overbaugh J, McClelland RS: Higher pre-infection vitamin E levels are associated with higher mortality in HIV-1 infected Kenyan women: a prospective study. *BMC Infect Dis*, 7, 63, 2007. PMID: PMC1914075.

105. Brown JM, Wald A, Hubbard A, Ruengruenthanakit K, Chipato T, Rugpao S, Mmiro F, Celentano DD, Salata RS, Morrison CS, **Richardson BA**, Padian NS: Incident and prevalent herpes simplex virus type 2 infection increases the risk of HIV acquisition among women in Uganda and Zimbabwe. *AIDS*, 21, 1515-1523, 2007.
106. Bosire R, Guthrie B, 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. *Breastfeeding Medicine*, 2, 129-138, 2007. PMID: PMC3381953.
107. Graham SM, Baeten JM, **Richardson BA**, Wener MH, Lavreys L, Mandaliya K, Ndinya-Achola JO, Overbaugh J, McClelland RS: A decrease in albumin in early HIV-1 infection predicts subsequent disease progression. *AIDS Res Hum Retroviruses*, 23, 1197-1200, 2007.
108. Blay WM, Kasprzyk T, Misher L, **Richardson BA**, Haigwood NL: Mutations in envelope gp120 can impact proteolytic processing of the gp160 precursor and thereby affect neutralization sensitivity of human immunodeficiency virus type 1 pseudoviruses. *J Virol*, 81, 13037-13049, 2007. PMID: PMC2169095.
109. Chung MH, Kiarie JN, **Richardson BA**, Lehman DA, Overbaugh J, Njiri F, John-Stewart GC: Independent effects of Nevirapine prophylaxis and HIV-1 RNA suppression in breast milk on early perinatal HIV-1 transmission. *J Acquire Immune Defic Syndr*, 46, 472-478, 2007. PMID: PMC3310242.
110. **Richardson BA**, Nduati R, Mbori-Ngacha D, Overbaugh J, John-Stewart GC: Acute HIV-1 infection among Kenyan infants. *Clin Infect Dis*, 46, 289-295, 2008. PMID: PMC3310239.
111. Li Y, Cleveland B, Klots I, Travis B, **Richardson BA**, Anderson D, Montefiori D, Polacino P, Hu SL: Removal of a single N-linked glycan in HIV-1 gp120 results in enhanced ability to induce neutralizing antibody responses. *J Virol*, 82, 638-651, 2008. PMID: PMC2224603.
112. Benki S, Mostad SB, **Richardson BA**, Mandaliya K, Kreiss JK, Overbaugh J: Increased levels of HIV-1 infected cells in endocervical secretions after the luteinizing hormone surge. *J Acquire Immune Defic Syndr*, 47, 529-534, 2008. PMID: PMC3412868.
113. McClelland RS, **Richardson BA**, Hassan WM, Chohan V, Lavreys L, Mandaliya K, Kiarie J, Jaoko W, Ndinya-Achola JO, Baeten JM, Kurth A, Holmes KK: Improvement of vaginal health for Kenyan women at risk for acquisition of HIV-1: Results of a randomized trial. *J Infect Dis*, 197, 1361-1368, 2008. PMID: PMC4122228.
114. 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*, 197, 1156-1161, 2008. PMID: PMC2689391.
115. McClelland RS, **Richardson BA**, Graham SM, Masese LN, Gitau R, Lavreys L, Mandaliya K, Jaoko W, Baeten JM, Ndinya-Achola JO: A prospective study of risk factors for bacterial vaginosis in HIV-1-seronegative African women. *Sex Transm Dis*, 35, 617-623, 2008. PMID: PMC3902781.
116. Lehman DA, Chung MH, John-Stewart GC, **Richardson BA**, Kiarie J, Overbaugh J: HIV-1 persists in breast milk cells despite antiretroviral treatment to prevent mother-to-child transmission. *AIDS*, 22, 1475-1485, 2008. PMID: PMC2765916.
117. Walson JL, Otieno PA, Mbuchi M, **Richardson BA**, Lohman-Payne B, Macharia SW, Overbaugh J, Berkley J, Sanders E, Chung M, John-Stewart GC: Albendazole treatment in HIV-1 and helminth co-

- infection: a randomized, double-blind, placebo-controlled trial. *AIDS*, 22, 1601-1609, 2008. PMID: PMC2637615.
118. Chung MH, Kiarie JN, **Richardson BA**, Lehman DA, Overbaugh J, Kinuthia J, Njiri F, John-Stewart GC: Highly active antiretroviral therapy versus zidovudine/nevirapine effects on early breast milk HIV type-1 RNA: A phase II randomized clinical trial. *Antivir Ther*, 13, 799-807, 2008. PMID: PMC2859833.
119. Blish CA, Dogan OC, Derby NR, Nguyen M, Chohan B, **Richardson BA**, Overbaugh J: Human immunodeficiency virus type 1 superinfection occurs despite relatively robust neutralizing antibody responses. *J Virol*, 82, 12094-12103, 2008. PMID: PMC2593335.
120. Mahalanabis M, Jayaraman P, Miura T, Pereyra F, Chester EM, **Richardson B**, Walker B, Haigwood NL: Continuous viral escape and selection by autologous neutralizing antibodies in drug-naïve HIV controllers. *J Virol*, 83, 662-672, 2009. PMID: PMC2612349.
121. Slyker JA, Lohman-Payne B, Rowland-Jones S, Otieno P, Maleche-Obimbo E, **Richardson B**, Farquhar C, Mbori-Ngacha D, Overbaugh J, 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*, 23, 117-124, 2009. PMID: PMC2739581.
122. Jia B, Lew SK, DeGottardi MQ, Piatak Jr. MP, Carville A, Mansfield KG, **Richardson BA**, Lifson JD, Evans DT: Immunization with single-cycle SIV significantly reduces viral loads after an intravenous challenge with SIV<sub>mac239</sub>. *PLoS Pathog*, 5(1): e1000272. doi:10.1371/journal.ppat.1000272, 2009. PMID: PMC2621341.
123. John-Stewart GC, Mbori-Ngacha D, Lohman 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 breastmilk HIV-1 transmission. *J Infect Dis*, 199, 889-898, 2009. PMID: PMC2891190.
124. McClelland RS, **Richardson BA**, Hassan WM, Graham SM, Kiarie J, Baeten JM, Mandaliya K, Jaoko W, Ndinya-Achola JO, Holmes KK: Prospective study of vaginal bacterial flora and other risk factors for vulvovaginal candidiasis. *J Infect Dist*, 199, 1883-1890, 2009. PMID: PMC2743896.
125. Lohman-Payne B, Slyker JA, **Richardson B**, 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*, 156, 511-517, 2009. PMID: PMC2691981.
126. Wamalwa DC, Farquhar C, Obimbo E, Selig S, Mbori-Ngacha DA, **Richardson BA**, Overbaugh J, Thaddeous E, 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*, 12, 8, 2009. PMID: PMC2708138.
127. Obimbo E, 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 Acquire Immune Defic Syndr*, 51, 209-215, 2009. PMID: PMC2758913.
128. Read JS, Mwatha A, **Richardson B**, Valentine M, Emel L, Manji K, Hoffman I, Sharma U, Goldenberg RL, Taha TE: Primary HIV-1 infection among infants in sub-Saharan Africa: HPTN 024. *J Acquir Immune Defic Syndr*, 51, 317-322, 2009. PMID: PMC2753468.

129. Chung MH, Drake A, **Richardson BA**, Reddy A, Thiga J, Sakir SR, Kiarie JN, Yowakim P, John-Stewart GC: Impact of prior HAART use on clinical outcomes in a large Kenyan HIV treatment program. *Curr HIV Res*, 7, 441-446, 2009. PMID: PMC2735680.
130. Baeten J, Hassan W, Chohan V, **Richardson B**, Mandaliya K, Ndinya-Achola J, Jaoko W, McClelland RS: Prospective study of correlates of vaginal Lactobacillus colonisation among high risk HIV-1 seronegative women. *Sex Transm Infect*, 85, 348-353. 2009. PMID: PMC2837477.
131. Slyker JA, Lohman-Payne BL, John-Stewart GC, Maleche-Obimbo E, Emery S, **Richardson B**, Dong T, Iversen AKN, Mbori-Ngacha D, Overbaugh J, Emery VC, Rowland-Jones SL: Acute cytomegalovirus infection in Kenyan HIV-infected infants. *AIDS*, 23, 2173-2181, 2009. PMID: PMC2761509.
132. Katz DA, Kiarie JN, John-Stewart GC, **Richardson BA**, John FN, Farquhar C: Male perspectives on incorporating men into antenatal HIV counseling and testing. *PLoS One*, 4, e7602, 2009. PMID: PMC2765726.
133. Katz DA, Kiarie JN, John-Stewart GC, **Richardson BA**, John FN, Farquhar C: HIV testing men in the antenatal setting: understanding male non-disclosure. *Int J STD AIDS*, 20, 765-767, 2009. PMID: PMC3042848.
134. Walson JL, Stewart BT, Sangare L, Mbogo LW, Otieno PA, Piper BK, **Richardson BA**, John-Stewart G: Prevalence and correlates of helminth co-infection in Kenyan HIV-1 infected adults. *PLoS Negl Trop Dis*, 4, e644, 2010. PMID: PMC2846937.
135. McClelland RS, Graham SM, **Richardson BA**, Peshu N, Masese LN, Wanje GH, Mandaliya KN, Kurth AE, Jaoko W, Ndinya-Achola JO: Treatment with antiretroviral therapy is not associated with increased sexual risk behavior in Kenyan female sex workers. *AIDS*, 24, 891-897, 2010. PMID: PMC2853894.
136. Blish CA, Sangare L, Herrin BR, **Richardson BA**, John-Stewart G, Walson JL: Changes in plasma cytokines following treatment of *Ascaris lumbricoides* in individuals with HIV-1 infection. *J Infect Dis*, 201, 1816-1821, 2010. PMID: PMC2946624.
137. Piwowar-Manning EM, Tustin NB, Siketeyo P, Chipungu C, Maharaj R, **Richardson BA**, Hillier S, Jackson JB: Validation of rapid HIV antibody tests in 5 African countries. *J Int Assoc Physicians AIDS Care*, 9, 170-172, 2010. PMID: PMC2989535.
138. Wamalwa DC, Obimbo EM, Farquhar C, **Richardson BA**, Mbori-Ngacha DA, Overbaugh J, Inwani E, Benki-Nugent S, John-Stewart G: Predictors of mortality in HIV-1 infected children on antiretroviral therapy in Kenya: a prospective cohort study. *BMC Pediatr* 10, 33, 2010. PMID: PMC2887829.
139. Morrison CS, Chen PL, **Richardson BA**, Chipato T, Mugerwa R, Byamugisha J, Padian N, Celentano DD, Salata RA: Hormonal contraception and risk of HIV acquisition: reanalysis using marginal structural modeling. *AIDS*, 24, 1778-1781, 2010. PMID: PMC3148067.
140. Katz DA, John-Stewart GC, **Richardson BA**, Majiwa M, Mabuka JM, Lohman-Payne B, Farquhar C: CCR5, RANTES, and SDF-1 polymorphisms and mother-to-child HIV-1 transmission. *Int J Immunogenet*, 37, 301-305, 2010. PMID: PMC2922909.
141. Ng CT, Jawroski JP, Jayaraman P, Sutton WF, Delio P, Kuller L, Anderson D, Landucci G, **Richardson BA**, Burton DR, Forthal DN, Haigwood NL: Passive neutralizing antibody controls SHIV viremia and enhances B cell responses in infant macaques. *Nat Med*, 16, 1117-1119, 2010. PMID: PMC2952052.
142. 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*, 202, 1273-1277, 2010. PMID: PMC3404885.
143. Graham SM, Masese L, Gitau R, Jalalian-Lechak Z, **Richardson BA**, Peshu N, Mandaliya K, Kiarie JN, Jaoko W, Ndinya-Achola J, Overbaugh J, McClelland RS: Antiretroviral adherence and development of drug resistance are the strongest predictors of genital HIV-1 shedding among women initiating treatment. *J Infect Dis*, 202, 1538-1542, 2010. PMID: PMC2957525.
144. Gitau GW, Graham SM, Masese LN, Overbaugh J, Chohan V, Peshu N, **Richardson BA**, Jaoko W, Ndinya-Achola JO, McClelland RS: Effect of acquisition and treatment of cervical infections on HIV-1 shedding in women on antiretroviral therapy. *AIDS*, 24: 2733-2737, 2010. PMID: PMC2978313.
145. Kinuthia J, Kiarie JN, Farquhar C, **Richardson BA**, Nduati R, Mbori-Ngacha, John-Stewart G: Cofactors for HIV-1 incidence during pregnancy and postpartum period. *Curr HIV Res*, 8: 510-514, 2010. PMID: PMC3372399.
146. Kwena ZA, Bukusi EA, Ng'ayo MO, Buffardi AL, Nguti R, **Richardson B**, Sang NM, Holmes K: Prevalence and risk factors for sexually transmitted infections in a high-risk occupational group: the case of fishermen along Lake Victoria in Kisumu, Kenya. *Int J STD AIDS*, 21: 708-713, 2010.
147. Sangaré LR, Brentlinger PE, **Richardson BA**, Staedke SG, Kiwuwa MS, Weiss NS: Determinants of use of intermittent preventive treatment of malaria in pregnancy: Jinja, Uganda. *Plos One*, 5: e15066, 2010. PMID: PMC2993958.
148. Aluisio A, **Richardson BA**, Bosire R, John-Stewart G, Mbori-Ngacha D, Farquhar C: Male antenatal attendance and HIV-1 testing are associated with decreased infant HIV-1 infection and increased HIV-1 free survival. *J Acquir Immune Defic Syndr*, 56: 76-82, 2011. PMID: PMC3005193.
149. Peacock-Villada E, **Richardson BA**, John-Stewart GC: Post-HAART outcomes in pediatric populations: comparison of resource-limited and developed countries. *Pediatrics*, 127: e423-441, 2011. PMID: PMC3025421.
150. McGrath CJ, Chung MH, **Richardson BA**, Benki-Nugent S, Warui D, John-Stewart GC: Younger age at HAART initiation is associated with more rapid growth reconstitution. *AIDS*, 25: 345-355, 2011. PMID: PMC3380084.
151. Graham SM, Masese L, Gitau R, **Richardson BA**, Mandaliya K, Peshu N, Jaoko W, Ndinya-Achola J, Overbaugh J, McClelland RS: Genital ulceration does not increase HIV-1 shedding in cervical or vaginal secretions of women taking antiretroviral therapy. *Sex Transm Infect*, 87: 114-117, 2011. PMID: PMC3081651.
152. Pyne-Mercier LD, John-Stewart GC, **Richardson BA**, Kagondi NL, Thiga J, Noshu H, Kist N, Chung MH: The consequences of post-election violence on antiretroviral HIV therapy in Kenya. *AIDS Care*, 23: 562-568, 2011. PMID: PMC3372410.
153. Abdool Karim SS, **Richardson BA**, Ramjee G, Hoffman IF, Chirenje ZM, Taha T, Kapina M, Maslankowski L, Coletti A, Profy A, Moench TR, Piwowar-Manning E, Masse B, Hillier SL, Soto-Torres L on behalf of the HIV Prevention Trials Network (HPTN) 035 Study Team: Safety and effectiveness of Buffergel and 0.5% PRO2000 gel for the prevention of HIV infection in women. *AIDS*, 25:957-966, 2011. PMID: PMC3083640.
154. McGowan I, Gomez K, Bruder K, Febo I, Chen BA, **Richardson BA**, Husnik M, Livant E, Price C, Jacobson C, and the MTN-004 Protocol Team: Phase I randomized trial of the vaginal safety and



- acceptability of SPL7013 gel (VivaGel<sup>®</sup>) in sexually active young women (MTN-004). *AIDS*, 25: 1057-1064, 2011. PMID: PMC3103767.
155. Lynch JB, Nduati R, Blish CA, **Richardson BA**, Mabuka JM, Jalalian-Lechak Z, John-Stewart G, Overbaugh J: The breadth and potency of passively acquired human immunodeficiency virus type 1-specific neutralizing antibodies do not correlate with the risk of infant infection. *J Virol*, 85: 5252-5261, 2011. PMID: PMC3094986.
156. Chung MH, **Richardson BA**, Tapia K, Benki-Nugent S, Kiarie JN, Simoni JM, Overbaugh J, Attwa M, John-Stewart GC: A randomized controlled trial comparing the effects of counseling and alarm device on HAART adherence and virologic outcomes. *Plos Med*, 8: e1000422, 2011. PMID: PMC3046986.
157. McClelland RS, **Richardson BA**, Wanje GH, Graham SM, Mutunga E, Peshu N, Kiarie JN, Kurth AE, Jaoko W: Association between participant self-report and biological outcomes used to measure sexual risk behavior in human immunodeficiency virus-1-seropositive female sex workers in Mombasa, Kenya. *Sex Transm Dis*, 38: 429-433, 2011. PMID: PMC31155001.
158. McKenzie KP, Rogers RK, Njoroge JW, John-Stewart G, **Richardson BA**, Mugo NR, De Vuyst H, Pamnani RN, Rana FS, Warui D, Chung MH: Cervical squamous intraepithelial lesions among HIV-positive women on antiretroviral therapy in Kenya. *Curr HIV Res*, 9: 180-185, 2011.
159. Sangare LR, Weiss NS, Brentlinger PE, **Richardson BA**, Staedke SG, Kiwuwa MS, Stergachis A: Patterns of anti-malarial drug treatment among pregnant women in Uganda. *Malar J*, 10: 152, 2011. PMID: PMC3118160.
160. Balkus JE, **Richardson BA**, Mandaliya K, Kiarie J, Jaoko W, Ndinya-Achola JO, Marrazzo J, Farquhar C, McClelland RS: Establishing and sustaining a healthy vaginal environment: an analysis of data from a randomized trial of periodic presumptive treatment for vaginal infections. *J Infect Dis*, 204: 323-326, 2011. PMID: PMC3114467.
161. Chung MH, McKenzie KP, **Richardson BA**, John-Stewart GC, Coombs RW, De Vuyst H, Njoroge JW, Nyongesa-Malava E, Sakr SR, Mugo NR: Cervical HIV-1 RNA shedding after cryotherapy among HIV-positive women with cervical intraepithelial neoplasia stage 2 or 3. *AIDS*, 25: 1915-1919, 2011. PMID: PMC3248579.
162. Scott ME, Wilson SS, Cosentino LA, **Richardson BA**, Moscicki AB, Hillier SL, Herold BC: Interlaboratory reproducibility of female genital tract cytokine measurements by Luminex: Implications for microbicide safety studies. *Cytokine*, 56: 430-434, 2011. PMID: PMC3185204.
163. Benki-Nugent S, Chung MH, Ackers M, **Richardson BA**, McGrath CJ, Kohler P, Thiga J, Attwa M, John-Stewart GC: Knowing a sexual partner is HIV-1-uninfected is associated with higher condom use among HIV-1-infected adults in Kenya. *Sex Transm Dis*, 38: 808-810, 2011. PMID: PMC3404889.
164. Kim N, Scott J, Cent A, Cook L, Morrow RA, **Richardson B**, Tapia K, Jerome KR, Lule G, John-Stewart G, Chung MH: HBV lamivudine resistance among hepatitis B and HIV co-infected patients starting lamivudine, stavudine, and nevirapine in Kenya. *J Viral Hepat*, 18: e447-452, 2011. PMID: PMC3177102.
165. 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*, 204: 1806-1810, 2011. PMID: PMC3203234.

166. Masese LN, Graham SM, Gitau R, Peshu N, Jaoko W, Ndinya-Achola JO, Mandaliya K, **Richardson BA**, Overbaugh J, McClelland RS: A prospective study of vaginal trichomoniasis and HIV-1 shedding in women on antiretroviral therapy. *BMC Infect Dis*, 11: 307, 2011. PMID: PMC321993.
167. 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*, 14: 61, 2011. PMID: PMC3313883.
168. Drake AL, Roxby AC, Ongecha-Owuor F, Kiarie J, John-Stewart G, Wald A, **Richardson BA**, Hitti J, Overbaugh J, Emery S, Farquhar C: Valacyclovir suppressive therapy reduces plasma and breast milk HIV-1 RNA levels during pregnancy and postpartum: A randomized trial. *J Infect Dis*, 205: 366-375, 2011. PMID: PMC3256951.
169. Drake AL, Roxby AC, Kiarie J, **Richardson BA**, Wald A, John-Stewart G, Farquhar C: Infant safety during and after maternal valacyclovir therapy in conjunction with antiretroviral HIV-1 prophylaxis in a randomized clinical trial. *PLoS One*, 7: e34635, 2012. PMID: PMC3324503.
170. Balkus JE, Jaoko W, Mandaliya K, **Richardson BA**, Masese L, Gitau R, Kiarie J, Marrazzo J, Farquhar C, McClelland RS: The posttrial effect of oral periodic presumptive treatment for vaginal infections on the incidence of bacterial vaginosis and lactobacillus colonization. *Sex Transm Dis*, 39: 361-365, 2012. PMID: PMC3335440.
171. 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*, 142: 757-763, 2012. PMID: PMC3301992.
172. Roxby AC, Drake AL, Ongecha-Owuor F, Kiarie JN, **Richardson BA**, Matemo DN, Overbaugh J, Emery S, John-Stewart GC, Wald A, Farquhar C: Effects of valacyclovir on markers of disease progression in postpartum women co-infected with HIV-1 and Herpes Simplex Virus-2. *PLoS One*, 7: e38622, 2012. PMID: PMC3373516.
173. Wamalwa D, Benki-Nugent S, Langat A, Tapia K, Ngugi E, Slyker J, **Richardson BA**, John-Stewart GC: Survival benefit of early infant antiretroviral therapy (ART) is compromised when diagnosis is delayed. *Pediatr Infect Dis J*, 31: 729-731, 2012. PMID: PMC3756892.
174. Sangare LR, Weiss NS, Brentlinger PE, **Richardson BA**, Staedke SG, Kiwuwa MS, Stergachis A: Determinants of use of insecticide treated nets for the prevention of malaria in pregnancy: Jinja, Uganda. *PLoS One*, 7: e39712, 2012. PMID: PMC3382147.
175. Goo L, Jalalian-Lechak Z, **Richardson B**, Overbaugh J: A combination of broadly neutralizing HIV-1 monoclonal antibodies targeting distinct epitopes effectively neutralizes variants found in early infection. *J Virol*, 86: 10857-10861, 2012. PMID: PMC3457273.
176. Nnedu ON, John-Stewart GC, Singa BO, Piper B, Otieno PA, Guidry A, **Richardson BA**, Walson J: Prevalence and correlates of insecticide-treated bednet use among HIV-1 infected adults in Kenya. *AIDS Care*, 24: 1559-1564, 2012.
177. 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 apoptotic-vulnerable T cells in HIV-1 infected infants. *J Virol*, 86: 11373-11379, 2012. PMID: PMC3457128.
178. Diener LC, Slyker JA, Gichuhi C, Tapia KA, **Richardson BA**, Wamalwa D, Farquhar C, Overbaugh J, Maleche-Obimbo E, John-Stewart G: Performance of the integrated management of childhood illness

- algorithm for diagnosis of HIV-1 infection among African infants. *AIDS*, 26: 1935-1941, 2012. PMID: PMC4113472.
179. Lohman-Payne B, Slyker JA, Moore S, Maleche-Obimbo L, Wamalwa DC, **Richardson BA**, Rowland-Jones S, Mbori-Ngacha D, Overbaugh J, John-Stewart GC: Breast milk cellular HIV-1 specific interferon  $\gamma$  responses are associated with protection from peripartum HIV transmission. *AIDS*, 26: 2007-2016, 2012. PMID: PMC3718292.
180. Walson J, Singa B, Sangare L, Naulikha J, Piper B, **Richardson B**, Otieno PA, Mbogo LW, Berkley JA, John-Stewart G: Empiric deworming to delay HIV-1 disease progression in adults with HIV who are ineligible for initiation of antiretroviral treatment (the HEAT study): a multi-site randomized trial. *Lancet Infect Dis*, 12: 925-932, 2012.
181. Dezutti CS, **Richardson BA**, Marrazzo JM, Tugetman J, Ramjee G, Taha T, Chirenje ZM, Abdool Karim SS, Hillier SL, Herold BC on behalf of the MTN Biomedical Sciences Working Group and the HPTN 035 Protocol Team: Mucosal *Escherichia coli* bactericidal activity and immune mediators are associated with HIV-1 seroconversion in women participating in the HPTN 035 trial. *J Infect Dis*, 206: 1931-1935, 2012. PMID: PMC3502373.
182. Blish CA, McClelland RS, **Richardson BA**, Jaoko W, Mandaliya K, Baeten JM, Overbaugh J: Genital inflammation predicts HIV-1 shedding independent of plasma viral load and systemic inflammation. *J Acquir Immune Defic Syndr*, 61: 436-440, 2012. PMID: PMC3494808.
183. Guthrie B, Lohman-Payne B, Liu A, Bosire R, Nuvor S, Choi R, Mackelprang R, Kiarie J, De Rosa S, **Richardson B**, John-Stewart G, Farquhar C: HIV-1-specific enzyme-linked immunosorbent spot assay responses in HIV-1 exposed uninfected partners in discordant relationships compared to those in low risk controls. *Clin Vaccine Immunol*, 19: 1798-1805, 2012. PMID: PMC3491560.
184. Roxby AC, Liu AY, Drake AL, Kiarie JN, **Richardson B**, Lohman-Payne BL, John-Stewart GC, Wald A, De Rosa S, Farquhar C: Short communication: T cell activation in HIV-1/herpes simplex virus-2 co-infected Kenyan women receiving valacyclovir. *AIDS Res Hum Retroviruses*, 29: 94-98, 2013. PMID: PMC3537320.
185. Hendrix CW, Chen BA, Guddera V, Hoesley C, Justman J, Nakabiito C, Salata R, Soto-Torres L, Patterson K, Minnis AA, Gandham S, Gomez K, **Richardson BA**, Bumpus NN: MTN-001 Randomized pharmacokinetic cross-over study comparing tenofovir vaginal gel and oral tablets in vaginal tissue and other compartments. *PLoS One*, 8: e55013, 2013. PMID: PMC3559346.
186. Minnis AM, Gandham S, **Richardson BA**, Guddera V, Chen BA, Salata R, Nakabiito C, Hoesley C, Justman J, Soto-Torres L, Patterson K, Gomez K, Hendrix C, and the MTN-001 Protocol Team: Adherence and acceptability in MTN 001: A randomized cross-over trial of daily oral and topical tenofovir for HIV prevention in women. *AIDS Behav*, 17: 737-747, 2013. PMID: PMC3562423.
187. Masese L, Baeten JM, **Richardson BA**, Deya R, Kabare E, Bukusi E, John-Stewart G, Jaoko W, McClelland RS: Incidence and correlates of Chlamydia trachomatis infection in a high-risk cohort of Kenyan women. *Sex Transm Dis*, 40: 221-225, 2013. PMID: PMC3831875.
188. Forthal DN, Landucci G, Chohan B, **Richardson BA**, McClelland SR, Jaoko W, Blish C, Overbaugh J: Antibody-dependent cell-mediated virus inhibition (ADCVI) antibody activity does not correlate with risk of HIV-1 superinfection. *J Acquir Immune Defic Syndr*, 63: 31-33, 2013. PMID: PMC3625514.
189. Walson J, Sangare L, Singa B, Naulikha J, Piper B, Yuhas K, Onchiri F, Otieno P, Mermin J, Zeh C, **Richardson B**, John-Stewart G: Evaluation of impact of long-lasting insecticide treated bed nets and point-of-use water filters on HIV-1 disease progression in Kenya. *AIDS*, 27: 1493-1501, 2013.

190. **Richardson BA**, Ramjee G, Kelly C, Fleming T, Makanani B, Mkandawire N, Musara P, Roberts S, Coletti A, Soto-Torres L, Abdool Karim S: Appropriateness of hydroxyethylcellulose gel as a placebo control in vaginal microbicide trials: A comparison of the two control arms of HPTN 035. *J Acquir Immune Defic Syndr*, 63: 120-125, 2013. PMID: PMC3625489.
191. Masese L, McClelland RS, Gitau R, Wanje G, Shafi J, Kashonga F, Ndinya-Achola JO, Lester R, **Richardson BA**, Kurth A: A pilot study of the feasibility of a vaginal washing cessation intervention among Kenyan female sex workers. *Sex Transm Infect*, 89: 217-222, 2013.
192. Balkus JE, **Richardson BA**, Mochache V, Chohan V, Chan J, Masese L, Shafi J, Marrazzo J, Farquhar C, McClelland RS: A prospective cohort study comparing the effect of single-dose 2g oral metronidazole on *Trichomonas vaginalis* infection in HIV-seropositive versus HIV-seronegative women. *Sex Transm Dis*, 40: 499-505, 2013. PMID: PMC3676301.
193. Slyker JA, Casper C, Tapia K, **Richardson B**, Bunts L, Huang ML, Maleche-Obimbo E, Nduati R, John-Stewart G: Clinical and virologic manifestations of primary Epstein-Barr (EBV) infection in Kenyan infants born to HIV-infected mothers. *J Infect Dis*, 207: 1798-1806, 2013. PMID: PMC3654744.
194. Langat A, Benki-Nugent S, Wamalwa D, Tapia K, Ngugi E, Diener L, **Richardson BA**, Melvin A, John-Stewart GC: Lipid changes in Kenyan HIV-1 infected infants initiating highly active antiretroviral therapy by one year of age. *Ped Infect Dis J*, 32: e298-e304, 2013. PMID: PMC3737429.
195. Beima-Sofie KM, Bigham A, Lingappa JR, Wamalwa D, Mackelprang RD, Bamshad MJ, Maleche-Obimbo E, **Richardson BA**, John-Stewart GC: Toll-like receptor variants are associated with infant HIV-1 acquisition and peak plasma HIV-1 RNA level. *AIDS*, 27: 2431-2439, 2013. PMID: PMC4124859.
196. Ronen K, McCoy CO, Matsen FA, Boyd DF, Emery S, Odem-Davis K, Jaoko W, Mandaliya K, McClelland RS, **Richardson BA**, Overbaugh J: HIV-1 superinfection occurs less frequently than initial infection in a cohort of high-risk Kenyan women. *PLoS Pathog*, 9: e1003593, 2013. PMID: PMC3757054.
197. Omenda MM, Milligan C, Odem-Davis K, Nduati R, **Richardson BA**, Lynch J, John-Stewart G, Overbaugh J: Evidence for efficient vertical transfer of maternal HIV-1 envelope specific neutralizing antibodies but no association of such antibodies with reduced infant infection. *J Acquir Immune Def Syndr*, 64: 163-166, 2013. PMID: PMC3805370.
198. Arndt MB, John-Stewart G, **Richardson BA**, Singa B, van Lieshout L, Verweij JJ, Sangare LR, Mbogo LW, Naulikha JM, Walson JL: Impact of helminth diagnostic test performance on estimation of risk factors and outcomes in HIV-positive adults. *PLoS One*, 8: e81915, 2013. PMID: PMC3852669.
199. Marson KG, Tapia K, Kohler P, McGrath CJ, John-Stewart GC, **Richardson BA**, Njoroge JW, Kiarie JN, Sakr SR, Chung MH: Male, mobile, and moneyed: Loss to follow-up vs. transfer of care in an urban African antiretroviral treatment clinic. *PLoS One*, 8: e78900, 2013. PMID: PMC3812001.
200. John-Stewart G, Wariua G, Beima-Sofie K, **Richardson B**, 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*, 25: 1067-1076, 2013. PMID: PMC3626761.
201. Coghill AE, Newcomb PA, Madeleine MM, **Richardson BA**, Mutyaba I, Okuku F, Phipps W, Wabinga H, Orem J, Casper C: Contribution of HIV infection to mortality among cancer patients in Uganda. *AIDS*, 27: 2933-2942, 2013. PMID: PMC4319357.

202. Chung MH, McKenzie KP, De Vuyst H, **Richardson BA**, Rana F, Pamnani R, Njoroge JW, Nyongesa-Malava E, Sakr SR, John-Stewart GC, Mugo NR: Comparing Papanicolaou smear, visual inspection with acetic acid and human papillomavirus cervical cancer screening methods among HIV-positive women by immune status and antiretroviral therapy. *AIDS*, 27: 2909-2019, 2013. PMID: PMC4007364.
203. Roxby AC, Atkinson C, Asbjornsdottir K, Farquhar C, Kiarie JN, Drake AL, Wald A, Boeckh M, **Richardson B**, Emery V, John-Stewart G, Slyker JA: Maternal Valacyclovir and infant cytomegalovirus acquisition: A randomized controlled trial among HIV-infected women. *PLoS One*, 9: e87855, 2014. PMID: PMC3913686.
204. Balkus JE, **Richardson BA**, Rabe LK, Taha TE, Mgodhi N, Kasaro MP, Ramjee G, Hoffman IF, Abdool Karim SS: Bacterial vaginosis and the risk of trichomonas vaginalis acquisition among HIV-1 negative women. *Sex Transm Dis*, 41: 123-128, 2014. PMID: PMC4128240.
205. Slyker J, Patterson J, Ambler G, **Richardson BA**, Maleche-Obimbo E, Bosire R, Mbori-Ngacha D, Farquhar C, John-Stewart G: Correlates and outcomes of preterm birth, low birth weight, and small for gestational age in HIV-1 exposed uninfected Kenyan infants. *BMC Pregnancy Childbirth*, 14: 7, 2014. PMID: PMC3897882.
206. Slyker J, Farquhar C, Atkinson C, Asbjornsdottir K, Roxby A, Drake A, Kiarie J, Wald A, Boeckh M, **Richardson B**, Odem-Davis K, John-Stewart G, Emery V: Compartmentalized Cytomegalovirus replication and transmission in the setting of maternal HIV-1 infection. *Clin Infect Dis*, 58: 564-572, 2014. PMID: PMC3905754.
207. Gerns Storey HL, **Richardson BA**, Singa B, Naulikha J, Prindle VC, Diaz-Ochoa VE, Felgner PL, Camerini D, Horton H, John-Stewart G, Walson JL: Use of principal components analysis and protein microarray to explore the association of HIV-1 specific IgG responses with disease progression. *AIDS Res Hum Retroviruses*, 30: 37-44, 2014. PMID: PMC3931433.
208. Osofi AO, John-Stewart G, Kiarie J, **Richardson B**, Kinuthia J, Krawowiak D, Farquhar C: Home visits during pregnancy enhance male partner HIV counselling and testing in Kenya: A randomized clinical trial. *AIDS*, 28: 95-103, 2014. PMID: PMC4337402.
209. Blish CA, Dogan OC, Jaoko W, McClelland RS, Mandaliya K, Odem-Davis K, **Richardson BA**, Overbaugh J: Association between cellular immune activation, target cell frequency, and risk of human immunodeficiency virus type 1 superinfection. *J Virol*, 88: 5894-5899, 2014. PMID: PMC4019101.
210. Drake AL, Wagner A, **Richardson BA**, John-Stewart G: Incident HIV during pregnancy and postpartum and risk of mother-to-child HIV transmission: a systematic literature review and meta-analysis. *PLoS Med*, 11, e1001608, 2014. PMID: PMC3934828.
211. Slyker JA, Casper C, Tapia K, **Richardson B**, Bunts L, Huang ML, Wamalwa D, Benki-Nugent S, John-Stewart G: Accelerated suppression of primary Epstein-Barr Virus infection in HIV-infected infants initiating Lopinavir/Ritonavir-based versus Nevirapine-based combination antiretroviral therapy. *Clin Infect Dis*, 58: 1333-1337, 2014. PMID: PMC3982841.
212. Herold BC, Dezzutti CS, **Richardson BA**, Marrazzo J, Mesquita PM, Carpenter C, Huber A, Louissaint N, Marzinke MA, Hillier SL, Hendrix CW: Antiviral activity of genital tract secretions following oral or topical tenofovir pre-exposure prophylaxis for HIV-1. *J Acquir Immune Defic Syndr*, 66: 65-73, 2014. PMID: PMC3981887.
213. Lehman DA, Ronen K, Blish CA, Baeten JM, Jalalian-Lechak Z, Jaoko W, Mandaliya K, **Richardson BA**, McClelland RS, Overbaugh J: Systemic cytokine levels show limited correlation with risk of HIV-1 acquisition. *J Acquir Immune Defic Syndr*, 66: 135-139, 2014. PMID: PMC4020985.

214. Masese L, Baeten JM, **Richardson BA**, Bukusi E, John-Stewart G, Jaoko W, Shafi J, Kiarie J, McClelland RS: Incident Herpes Simplex Virus type 2 infection increases the risk of subsequent episodes of bacterial vaginosis. *J Infect Dis*, 209: 1023-1027, 2014. PMID: PMC3952675.
215. Seaton KE, Ballweber L, Lan A, Donathan M, Hughes S, Vojtech L, Moody MA, Liao HX, Haynes BF, Galloway CG, **Richardson BA**, Karim SA, Dezzutti CS, McElrath MJ, Tomaras GD, Hladik F: HIV-1 specific IgA detected in vaginal secretions of HIV uninfected women participating in a microbicide trial in Southern Africa are primarily directed toward gp120 and gp140 specificities. *PLoS One*, 9: e101863, 2014. PMID: PMC4108330.
216. Guffey MB, **Richardson B**, Husnik M, Makanani B, Chilongozi D, Yu E, Ramjee G, Mgodhi N, Gomez K, Hillier SL, Abdool Karim S: HPTN 035 phase II/Ib randomized safety and effectiveness study of the vaginal microbicides BufferGel and 0.5% PRO 2000 for the prevention of sexually transmitted infections in women. *Sex Transm Infect*, 90: 363-369, 2014. PMID: PMC4278566.
217. Day S, Graham SM, Masese LN, **Richardson BA**, Kiarie JN, Jaoko W, Mandaliya K, Chohan V, Overbaugh J, McClelland RS: A prospective cohort study of the effect of Depot Medroxyprogesterone Acetate on detection of plasma and cervical HIV-1 in women initiating and continuing antiretroviral therapy. *J Acquir Immune Defic Syndr*, 66: 452-456, 2014. PMID: PMC4419746.
218. Unger JA, **Richardson BA**, Otieno PA, Farquhar C, Wamalwa D, John-Stewart GC: Mode of delivery and postpartum HIV-1 disease progression and mortality in a Kenyan cohort. *BMC Pregnancy Childbirth*, 14: 257, 2014. PMID: PMC4133616.
219. Newman LP, Njoroge A, Ben-Youssef L, Merkel M, Gatuguta A, Ton Q, Obimbo EM, Wamalwa D, Lohman-Payne B, **Richardson BA**, Nduati R, Farquhar C: Measles seropositivity in HIV-infected Kenyan children on antiretroviral therapy. *Pediatr Infect Dis*, 33: 843-845, 2014. PMID: PMC4160422.
220. Penrose KJ, **Richardson BA**, Besson G, Dezzutti CS, Herold BC, Abdool-Karim SS, Mellors JW, Parikh UM on behalf of the MTN Biomedical Sciences Working Group and the HPTN 035 Protocol Team: Y chromosome and HIV DNA detection in vaginal swabs as biomarkers of semen and HIV exposure in women. *Sex Transm Dis*, 41: 674-679, 2014. PMID: PMC4346249.
221. Chung MH, Beck IA, Dross S, Tapia K, Kiarie JN, **Richardson BA**, Overbaugh J, Sakr SR, John-Stewart GC, Frenkel LM: Oligonucleotide Ligation Assay detects HIV drug resistance associated with virologic failure among antiretroviral-naïve adults in Kenya. *J Acquir Immune Defic Syndr*, 67: 246-253, 2014. PMID: PMC4197120.
222. Ronen K, **Richardson BA**, Graham SM, Jaoko W, Mandaliya K, McClelland RS, Overbaugh J: HIV-1 superinfection is associated with an accelerated viral load increase but has a limited impact on disease progression. *AIDS*, 28: 2281-2286, 2014.
223. Pavlinac PB, John-Stewart GC, Naulikha JM, Onchiri FM, Deno DM, Odundo EA, Singa BO, **Richardson BA**, Walson JL: High-risk enteric pathogens associated with HIV infection and HIV exposure in Kenyan children with acute diarrhea. *AIDS*, 28: 2287-2296, 2014. PMID: PMC4346243.
224. Graham SM, Rajwans N, **Richardson BA**, Jaoko W, McClelland RS, Overbaugh J, Liles WC: Elevation of soluble intercellular adhesion molecule-1 levels, but not Angiopoietin 2 in the plasma of human immunodeficiency virus-infected African women with clinical Kaposi Sarcoma. *Am J Trop Med Hyg*, 91: 705-708, 2014. PMID: PMC4183391.
225. Marrazzo JM, Ramjee G, **Richardson BA**, Gomez K, Mgodhi N, Nair G, Palanee T, Nakabito C, van der Straten A, Noguchi L, Hendrix CW, Dai J, Ganesh S, Mkhize B, Taljaard M, Parikh U, Piper J, Masse B,

- Grossman C, Rooney J, Schwartz JL, Watts H, Marzinke M, Hillier SL, McGowan IM, Chirenje ZM for the VOICE Study Team: Tenofovir-based preexposure prophylaxis for HIV infection among African women. *NEJM*, 372: 509-518, 2015. PMID: PMC4341965.
226. Onchiri FM, Pavlinac PB, Singa BO, Naulikha JM, Odundo EA, Farquhar C, **Richardson BA**, John-Stewart G, Walson JL: Frequency and correlates of malaria over-treatment in areas of differing malaria transmission: a cross-sectional study in rural Western Kenya. *Malar J*, 14: 97, 2015. PMID: PMC4349314.
227. Wamuti BM, Erdman LK, Cherutich P, Golden M, Dunbar M, Bukusi D, **Richardson B**, Ng'ang'a A, Barnabas R, Mutiti PM, Macharia P, Jerop M, Otieno FA, Poole D, Farquhar C: Assistant partner notification services to augment HIV testing and linkage to care in Kenya: study protocol for a cluster randomized trial. *Implement Sci*, 10: 23, 2015. PMID: PMC4342094.
228. Milligan C, **Richardson BA**, John-Stewart G, Nduati R, Overbaugh J: Passively acquired antibody-dependent cellular cytotoxicity (ADCC) activity in HIV-infected infants is associated with reduced mortality. *Cell Host Microbe*, 17: 500-506, 2015. PMID: PMC4392343.
229. Liu AY, Lohman-Payne B, Chung MH, Kiarie J, Kinuthia J, Slyker J, **Richardson B**, Lehman D, Farquhar C, John-Stewart G: Maternal plasma and breastmilk viral loads are associated with HIV-1-specific cellular immune responses among HIV-exposed, uninfected infants in Kenya. *Clin Exp Immunol*, 180: 509-519, 2015. PMID: PMC4449779.
230. Masese L, Baeten JM, **Richardson BA**, Bukusi E, John-Stewart G, Graham SM, Shafi J, Kiarie J, Overbaugh J, McClelland RS: Changes in the contribution of genital tract infections to HIV acquisition among Kenyan high-risk women from 1993 to 2012. *AIDS*, 29: 1077-1085, 2015. PMID: PMC4576156.
231. Noguchi LM, **Richardson BA**, Baeten JM, Hillier SL, Balkus JE, Chirenje ZM, Bunge K, Ramjee G, Nair G, Palanee-Phillips T, Selepe P, van der Straten A, Parikh UM, Gomez K, Piper JM, Watts DH, Marrazzo JM, for the VOICE Study Team: Risk of HIV-1 acquisition among women using different types of injectable progestin contraception in South Africa: a prospective cohort study. *Lancet HIV*, 2: e279-e287, 2015. PMID: PMC4491329.
232. Balkus JE, Nair G, Montgomery ET, Mishra A, Palanee-Phillips T, Ramjee G, Panchia R, Selepe P, **Richardson BA**, Chirenje ZM, Marrazzo JM: Age-disparate partnerships and risk of HIV-1 acquisition among South African women participating in the VOICE trial. *JAIDS*, 70: 212-217, 2015. PMID: PMC4573287.
233. McGrath CJ, Diener L, **Richardson BA**, Peacock-Chambers E, John-Stewart GC: Growth reconstitution and nutritional supplementation: systematic review and meta-analysis. *AIDS*, 29: 2009-2023, 2015. PMID: PMC4579534.
234. Kinuthia J, Drake AL, Matemo D, **Richardson BA**, Zeh C, Osborn L, Overbaugh J, McClelland RS, John-Stewart G: HIV acquisition during pregnancy and postpartum is associated with genital infections and partnership characteristics. *AIDS*, 29: 2025-2033, 2015. PMID: PMC4692052.
235. Pellett Madan R, Dezzutti CS, Rabe L, Hillier SL, Marrazzo J, McGowan I, **Richardson BA**, Herold BC: Soluble immune mediators and vaginal bacteria impact innate genital mucosal antimicrobial activity in young women. *Am J Reprod Immunol*, 74: 323-332, 2015. PMID: PMC4573238.
236. Murphy K, **Richardson BA**, Dezzutti CS, Marrazzo J, Hillier SL, Hendrix CW, Herold BC: Levels of genital tract defensins and cytokines differ between HIV-uninfected US and African women. *Am J Reprod Immunol*, 74: 312-322, 2015. PMID: PMC4573314.

237. Osoti AO, John-Stewart G, Kiarie JN, **Richardson B**, Kinuthia J, Krakowiak D, Farquhar C: Home-based HIV testing for men preferred over clinic-based testing by pregnant women and their male partners, a nested cross-sectional study. *BMC Infect Dis*, 15: 298, 2015. PMID: PMC4520092.
238. Othieno C, Babigumira JB, **Richardson B**: Are women with complications of an incomplete abortion more likely to be HIV infected than women without complications? *BMC Womens Health*, 15: 95, 2015. PMID: PMC4624175.
239. Milligan C, **Richardson BA**, John-Stewart G, Nduati R, Overbaugh J: FCGR2A and FCGR3A genotypes in human immunodeficiency virus mother-to-child transmission. *Open Forum Infect Dis*, 2: ofv149, 2015. PMID: PMC4653957.
240. McClelland RS, **Richardson BA**, Cherutich P, Mandaliya K, John-Stewart G, Miregwa B, Odem-Davis K, Jaoko W, Kimanga D, Overbaugh J: A 15-year study of the impact of community antiretroviral therapy coverage on HIV incidence in Kenyan female sex workers. *AIDS*, 29: 2279-2286, 2015. PMID: PMC4640974.
241. LaCourse SM, Cranmer LM, Matemo D, Kinuthia J, **Richardson BA**, John-Stewart G, Horne DJ: Tuberculosis case finding in HIV-infected pregnant women in Kenya reveals poor performance of symptom screening and rapid diagnostic tests. *J Acquir Immune Defic Syndr*, 71: 219-227, 2016. PMID: PMC4712112.
242. Dai JY, Hendrix CW, **Richardson BA**, Kelly C, Marzinke M, Chirenje ZM, Marrazzo JM, Brown ER: Pharmacological measures of treatment adherence and risk of HIV infection in the VOICE study. *J Infect Dis*, 213: 335-342, 2016. PMID: PMC4704663.
243. Milligan C, Omenda M, Chohan V, Odem-Davis K, **Richardson B**, Nduati R, Overbaugh J: Maternal neutralization-resistant virus variants do not predict infant HIV infection risk. *MBio*, 7: e02221-15, 2016. PMID: PMC4742716.
244. Polyak CS, Yuhua K, Singa B, Khaemba M, Walson J, **Richardson BA**, John-Stewart G: Cotrimoxazole prophylaxis discontinuation among antiretroviral-treated HIV-1-infected adults in Kenya: a randomized non-inferiority trial. *PLoS Med*, 13: e1001934, 2016. PMID: PMC4701407.
245. **Richardson BA**, John-Stewart G, Atkinson C, Nduati R, Asbjornsdottir K, Boeckh M, Overbaugh J, Emery V, Slyker JA: Vertical cytomegalovirus transmission from HIV-infected women randomized to formula-feed or breastfeed their infants. *J Infect Dis*, 213: 992-998, 2016. PMID: PMC4760415.
246. Pavlinac PB, Lokken EM, Walson JL, **Richardson BA**, Crump JA, John-Stewart GC: Mycobacterium tuberculosis bacteremia in adults and children: a systematic review and meta-analysis. *Int J Tuberc Lung Dis*, 20: 895-902, 2016.
247. Balkus JE, Brown E, Palanee T, Nair G, Gafoor Z, Zhang J, **Richardson BA**, Chirenje ZM, Marrazzo JM, Baeten JM: An empiric HIV risk scoring tool to predict HIV-1 acquisition in African women. *J Acquir Immune Defic Syndr*, 72: 333-343, 2016. PMID: PMC4911322.
248. Pavlinac PB, Lokken EM, Walson JL, **Richardson BA**, Crump JA, John-Stewart GC: Mycobacterium tuberculosis bacteremia in adults and children: A systematic review and meta-analysis. *Int J Tuberc Lung Dis*, 20: 895-902, 2016.
249. Arndt MB, **Richardson BA**, Ahmed T, Mahfuz M, Haque R, John-Stewart GC, Denno DM, Petri WA Jr, Kosek M, Walson JL: Fecal markers of environmental enteropathy and subsequent growth in Bangladeshi children. *Am J Trop Med Hyg*, 95: 694-701, 2016. PMID: PMC5014281.



250. Wamalwa D, Benki-Nugent S, Langat A, Tapia K, Ngugi E, Moraa H, Maleche-Obimbo E, Otieno V, Inwani I, **Richardson BA**, Chohan B, Overbaugh J, John-Stewart GC: Treatment interruption after 2-year antiretroviral treatment initiated during acute/early HIV in infancy: A randomized trial. *AIDS*, 30: 2303-2313, 2016. PMID: PMC5014697.
251. Wilson KS, Deya R, Yuhas K, Simoni J, Vander Stoep A, Shafi J, Jaoko W, Hughes JP, **Richardson BA**, McClelland RS: A prospective cohort study of intimate partner violence and unprotected sex in HIV-positive female sex workers in Mombasa, Kenya. *AIDS Behav*, 20: 2054-2064, 2016.
252. Wilson KS, Wanje G, Yuhas K, Simoni J, Masese L, Vander Stoep A, Jaoko W, Hughes JP, **Richardson BA**, McClelland RS: A prospective study of intimate partner violence as a risk factor for detectable plasma viral load in HIV-positive women engaged in transactional sex in Mombasa, Kenya. *AIDS Behav*, 20: 2065-2077, 2016. PMID: PMC4996676.
253. Trinh TT, Yatich N, Ngomoa R, McGrath CJ, **Richardson BA**, Sakr SR, Langat A, John-Stewart GC, Chung MH: Partner disclosure and early CD4 response among HIV-infected adults initiating antiretroviral treatment in Nairobi Kenya. *PLoS One*, 11: e0163594, 2016. PMID: PMC5053490.
254. White D, Wilson KS, Masese LN, Wanje G, Jaoko W, Mandaliya K, **Richardson BA**, Kinuthia J, Simoni JM, McClelland RS: Alcohol use and associations with biological markers and self-reported indicators of unprotected sex in Human Immunodeficiency Virus-positive female sex workers in Mombasa, Kenya. *Sex Transm Dis*, 43: 642-647, 2016. PMID: PMC5026390.
255. Onchiri FM, Pavlinac PB, Singa BO, Naulikha JM, Odundo EA, Farquhar C, **Richardson BA**, John-Stewart G, Walson JL: Low bacteremia prevalence among febrile children in areas of differing malaria transmission in rural Kenya: A prospective cross-sectional study. *J Ped Infect Dis Soc*, 5: 385-394, 2016. PMID: PMC5181360.
256. Baeten JM, Palanee-Phillips T, Brown ER, Schwartz K, Soto-Torres LE, Govender V, Mgodini NM, Kiweewa FM, Nair G, Mhlanga F, Siva S, Bekker LG, Jeenaarain N, Gaffoor Z, Martinson F, Makanani B, Pather A, Naidoo L, Husnik M, **Richardson BA**, Parikh UM, Mellors JW, Markinke MA, Hendrix CW, van der Straten A, Ramjee G, Chirenje ZM, Nakabiito C, Taha TE, Jones J, Mayo A, Scheckter R, Berthiaume J, Livant E, Jacobson C, Ndase P, White R, Patterson K, Germuga D, Galaska B, Bunge K, Singh D, Szydlo DW, Montgomery ET, Mensch BS, Torjesen K, Grossman CI, Chakhtoura N, Nel A, Rosenberg Z, McGowan I, Hillier S, for the MTN-020/ASPIRE Study Team: Use of a Vaginal Ring Containing Dapivirine for HIV-1 Prevention in Women. *N Engl J Med*, 375: 2121-2132, 2016. PMID: PMC4993693.
257. Cherutich P, Golden MR, Wamuti B, **Richardson BA**, Asbjornsdottir KH, Otieno FA, Ng'ang'a A, Maingi Mutiti P, Macharia P, Sambai B, Dunbar M, Bukusi D, Farquhar C for the aPS Study Group: Assisted partner services for HIV in Kenya: A cluster randomised controlled trial. *Lancet HIV*, 4: e74-e82, 2017. PMID: PMC5291815.
258. Kinuthia J, **Richardson BA**, Drake AL, Matemo D, Unger JA, McClelland, John-Stewart G: Sexual behavior and vaginal practices during pregnancy and postpartum: Implications for HIV prevention strategies. *J Acquir Immune Defic Syndr*, 74: 142-149, 2017. PMID: PMC5357239.
259. Chirenje MZ, Gundacker HM, **Richardson B**, Rabe L, Gaffoor Z, Nair G, Mirembe BG, Piper JM, Hillier S, Marrazzo J: Risk factors for incidence of sexually transmitted infections among women in a HIV chemoprevention trial: VOICE (MTN-003). *Sex Transm Dis*, 44: 135-140, 2017. PMID: PMC5535309.
260. Drake AL, Unger JA, Ronen K, Matemo D, Perrier T, DeRenzi B, **Richardson BA**, Kinuthia J, John-Stewart G: Evaluation of mHealth strategies to optimize adherence and efficacy of Option B+ prevention of

- mother-to-child HIV transmission: Rationale, design and methods of a 3-armed randomized controlled trial. *Contemp Clin Trials*, 57: 44-50, 2017.
261. LaCourse SM, Cranmer LM, Matemo D, Kinuthia J, **Richardson BA**, Horne DJ, John-Stewart G: Effect of pregnancy on interferon gamma release-assay and tuberculin skin test detection of latent TB infection among HIV-infected women in a high burden setting. *J Acquir Immune Defic Syndr*, 75: 128-136, 2017. PMID: PMC5388595.
262. Cagle A, McGrath C, **Richardson BA**, Donovan D, Sakr S, Yatich N, Ngomoa R, Chepngeno Langat A, John-Stewart G, Chung MH: Alcohol use and immune reconstitution among HIV-infected patients on antiretroviral therapy in Nairobi, Kenya. *AIDS Care*, 29: 1-6, 2017.
263. Goyette MS, Wilson KS, Deya R, Masese LM, Shafi J, **Richardson BA**, Mandaliya K, Jaoko W, McClelland RS: Brief report: Association between menopause and unprotected sex in high-risk HIV-positive women in Mombasa, Kenya. *J Acquir Immune Defic Syndr*, 74: 488-492, 2017. PMID: PMC5340629.
264. Cranston RD, Lama JR, **Richardson BA**, Carballo-Diequez A, Kunjara Na Ayudhya RP, Liu K, Patterson KB, Leu CS, Galaska B, Jacobson CE, Parikh UM, Marzinke MA, Hendrix CW, Johnson S, Piper JM, Grossman C, Ho KS, Lucas J, Pickett J, Bekker LG, Chariyalertsak S, Chitwarakorn A, Gonzales P, Holtz TH, Liu AY, Mayer KH, Zorrilla C, Schwartz JL, Rooney J, McGowan I, and the MTN-017 Protocol Team: MTN-017: A rectal phase 2 extended safety and acceptability study of Tenofovir reduced-glycerin 1% gel. *Clin Inf Dis*, 64: 614-620, 2017.
265. Slyker JA, **Richardson B**, Chung MH, Atkinson C, Asbjornsdottir KH, Lehman DA, Boeckh M, Emery V, Kiarie J, John-Stewart G: Maternal highly active retroviral therapy reduces vertical Cytomegalovirus transmission but does not reduce breast milk Cytomegalovirus levels. *AIDS Res Hum Retroviruses*, 33: 332-338, 2017. PMID: PMC5372773.
266. Drake AL, Unger JA, Ronen K, Materno D, Perrier T, DeRenzi B, **Richardson BA**, Kinuthia J, John-Stewart G: Evaluation of mHealth strategies to optimize adherence and efficacy of Option B+ prevention of mother-to-child HIV transmission: Rationale, design and methods of a 3-armed randomized controlled trial. *Contemp Clin Trials*, 57: 44-50, 2017. PMID: PMC5522580.
267. Storey HL, Singa B, Naulikha J, Horton H, **Richardson BA**, John-Stewart G, Walson JL: Soil transmitted helminth infections are not associated with compromised antibody responses to previously administered measles and tetanus vaccines among HIV-1 infected, ART naïve Kenyan adults. *Parasite Epidemiol Control*, 2: 13-20, 2017. PMID: PMC5600515.
268. Mark J, Kinuthia J, Roxby AC, Krakowiak D, Osoti A, **Richardson BA**, Gone MA, Asila V, Parikh S, Farquhar C: Uptake of home-based syphilis and human immunodeficiency virus testing among male partners of pregnant women in Western Kenya. *Sex Transm Dis*, 44: 533-538, 2017. PMID: PMC5657390.
269. Carballo-Diequez A, Balan IC, Brown III W, Giguere R, Dolezal C, Leu CS, Marzinke MA, Hendrix CW, Piper JM, **Richardson BA**, Grossman C, Johnson S, Gomez K, Horn S, Kunjara Na Ayudhya RP, Patterson K, Jacobson C, Bekker LG, Chariyalertsak S, Chitwarakorn A, Gonzales P, Holtz TH, Liu A, Mayer KH, Zorrilla C, Lama J, McGowan I, Cranston RD: High levels of adherence to a rectal microbicide gel and to oral pre-exposure prophylaxis (PrEP) achieved in MTN-017 among men who have sex with men (MSM) and transgender women. *PLoS One*, 12: e0181607, 2017. PMID: PMC5531503.
270. Tickell KD, Pavlinac PB, John-Stewart GC, Denno DM, **Richardson BA**, Naulikha JM, Kirera RK, Swierczewski BE, Singa BO, Walson JL: Impact of childhood nutritional status on pathogen prevalence and severity of acute diarrhea. *Am J Trop Med Hyg*, 97: 1337-1344, 2017. PMID: PMC5817755.

271. Carballo-Diequez A, Giguere R, Dolezal C, Leu CS, Balan IC, Brown W 3<sup>rd</sup>, Rael C, **Richardson BA**, Piper JM, Bekker LG, Chariyalertsak S, Chitwarakorn A, Gonzales P, Holtz TH, Liu A, Mayer KH, Zorilla CD, Lama LR, McGowan I, Cranston RD; MTN-017 Protocol Team: Preference of oral Tenofovir Disoproxil Fumarate/Emtricitabine versus rectal Tenofovir Reduced-Glycerin 1% Gel regimens for HIV prevention among cisgender men and transgender women who engage in receptive anal intercourse with men. *AIDS Behav*, 21: 3336-3345, 2017. PMID: PMC5856109.
272. McGrath CJ, Garcia R, Trinh TT, **Richardson BA**, John-Stewart GC, Nyongesa-Malava E, Mugo NR, Pamnani R, Sakr SR, De Vuyst H, Chung MH: Role of p16 testing in cervical cancer screening among HIV-infected women. *PLoS One*, 12: e0185597, 2017. PMID: PMC5638250.
273. Masese LN, Wanje G, Kabare E, Budambula V, Mutuku F, Omoni G, Baghazal A, **Richardson BA**, McClelland RS: Screening for sexually transmitted infections in adolescent girls and young women in Mombasa, Kenya: Feasibility, prevalence, and correlates. *Sex Transm Dis*, 44: 725-731, 2017. PMID: PMC5685875.
274. Wilson KS, Mugo C, Bukusi D, Inwani I, Wagner AD, Moraa H, Owens T, Babigumira JB, **Richardson BA**, John-Stewart GC, Slyker JA, Wamalwa DC, Kohler PK: Simulated patient encounters to improve adolescent retention in HIV care in Kenya: a study protocol of a stepped-wedge randomized controlled trial. *Trials*, 18: 619, 2017. PMID: PMC5745919.
275. Silverman RA, Beck IA, Kiptiness C, Levine M, McGrath CJ, Bii S, **Richardson BA**, John-Stewart G, Chohan B, Sakr SR, Kiarie JN, Frenkel LM, Chung MH: Prevalence of Pre-antiretroviral Treatment Drug Resistance by Gender, Age, and Other Factors in HIV-infected Individuals Initiating Therapy in Kenya, 2013-2014. *J Infect Dis*, 216: 1569-1578, 2017. PMID: PMC5853791.
276. Pavlinac PB, Singa BO, John-Stewart GC, **Richardson BA**, Brandler RL, McGrath CJ, Tickell KD, Amondi M, Rwigy D, Babigumira JB, Kariuki S, Nduati R, Walson JL: Azithromycin to prevent post-discharge morbidity and mortality in Kenyan children: a protocol for a randomized double-blind, placebo-controlled trial (the Toto Bora trial). *BMJ Open*, 7: e019170, 2017. PMID: PMC5778294.
277. Goyette MS, Mutiti PM, Bukusi D, Wamuti BM, Otieno FA, Cherutich P, Golden MR, Spiegel H, **Richardson BA**, Ng'ang'a A, Farquhar C: Brief Report: Assisted partner services among those with and without a history of intimate partner violence in Kenya. *J Acquir Immune Defic Syndr*, 78: 16-19, 2018. PMID: PMC5889666.
278. McClelland RS, Lingappa JR, Srinivasan S, Kinuthia J, John-Stewart GC, Jaoko W, **Richardson BA**, Yuhas K, Fiedler TL, Mandaliya KN, Munch MM, Mugo NR, Cohen CR, Baeten JM, Celum C, Overbaugh J, Fredricks DN: Evaluation of the association between the concentrations of key vaginal bacteria and the increased risk of HIV acquisition in African women from five cohorts: a nested case-control study. *Lancet Infect Dis*, 18: 554-564, 2018.
279. Njuguna IN, Cranmer LM, Otieno VO, Mugo C, Okinyi HM, Benki-Nugent S, **Richardson B**, Stern J, Maleche-Obimbo E, Wamalwa DC, John-Stewart GC: Urgent versus post-stabilization antiretroviral treatment in hospitalized HIV-infected children in Kenya (PUSH) a randomized controlled trial. *Lancet HIV*, 5: e12-e22, 2018. PMID: PMC5777310.
280. Wilson KS, Wanje G, Masese L, Simoni JM, Shafi J, Adala L, Overbaugh J, Jaoko W, **Richardson BA**, McClelland RS: A prospective cohort study of fertility desire, unprotected sex, and detectable viral load in HIV-positive female sex workers in Mombasa, Kenya. *J Acquir Immune Defic Syndr*, 78: 276-282, 2018. PMID: PMC5997523.

281. Greene SA, McGrath CJ, Lehman DA, Marson KG, Trinh TT, Yatich N, Nyongesa-Malava E, Kitpinness C, **Richardson BA**, John-Stewart GC, De Vuyst H, Sakr SR, Mugo NR, Chung MH: Increased cervical Human Immunodeficiency Virus (HIV) RNA shedding among HIV-infected women randomized to Loop Electrosurgical Excision Procedure compared to cryotherapy for cervical intraepithelial neoplasia 2/3. *Clin Infect Dis*, 66: 1778-1784, 2018. PMID: PMC6248794.
282. Liu AY, De Rosa SC, Guthrie BL, Choi RY, Kerubo-Bosire R, **Richardson BA**, Kiarie J, Farquhar C, Lohman-Payne B: High background in ELISpot assays is associated with elevated levels of immune activation in HIV-1-seronegative individuals in Nairobi. *Immun Inflamm Dis*, 6: 392-401, 2018. PMID: PMC6113767.
283. Peebles K, McClelland RS, Overbaugh J, **Richardson BA**, Bosire R, Kiarie JN, Farquhar C, Guthrie BL: Higher prevalence of viral control in HIV-1 infected women in serodiscordant relationships. *PLoS One*, 13(12): e0208401, 2018. PMID: PMC6281234.
284. Cranston RD, Carballo-Diequez A, Gundacker H, **Richardson BA**, Giguere R, Dolezal C, Siegel A, KunjaraNaAyudhya RP, Gomez K, Piper JM, Lama JR, McGowan I; MTN-017 Protocol Team: Prevalence and determinants of anal human papillomavirus infection in men who have sex with men and transgender women. *Int J STD AIDS*, 30: 154-162, 2019. PMID: PMC6552657.
285. Lokken EM, **Richardson BA**, Kinuthia J, Mwinyikai K, Abdalla A, Jaoko W, Mandaliya K, Shafi J, McClelland RS: A prospective cohort study of the association between body mass index and incident bacterial vaginosis. *Sex Transm Dis*, 46: 31-36, 2019. PMID: PMC6289672.
286. Sabo MC, Balkus JE, **Richardson BA**, Srinivasan S, Kimani J, Anzala O, Schwebke J, Feidler TL, Fredricks DN, McClelland RS: Association between vaginal washing and vaginal bacterial concentrations. *PLoS One*, 14(1): e0210825, 2019. PMID: PMC6345501.
287. Mensch BS, **Richardson BA**, Husnik M, Brown ER, Kiweewa FM, Mayo AJ, Baeten JM, Palanee-Phillips T, van der Straten A; MTN-020/ASPIRE study team: Vaginal ring use in a Phase 3 microbicide trial: A comparison of objective measures and self-reports of non-adherence in ASPIRE. *AIDS Behav*, 23: 504-512, 2019. PMID: PMC6374159.
288. Dettinger JC, Kinuthia J, Pintye J, Mwongeli N, Gomez L, **Richardson BA** Barnabas R, Wagner AD, O'Malley G, Baeten JM, John-Stewart G: PrEP Implementation for Mothers in Antenatal Care (PrIMA): study protocol of a cluster randomized trial. *BMJ Open*, 9(3): e025122, 2019. PMID: PMC6430021.
289. Leu CS, Giguere R, Bauermeister JA, Dolezal C, Brown W 3<sup>rd</sup>, Balan IC, **Richardson BA**, Piper JM, Lama JR, Cranston RD, Carballo-Diequez A: Trajectory of use over time of an oral tablet and a rectal gel for HIV prevention among transgender women and men who have sex with men. *AIDS Care*, 31: 379-387, 2019. PMID: PMC6382555.
290. Njuguna IN, Cranmer LM, Wagner AD, LaCourse SM, Mugo C, Benki-Nugent S, **Richardson BA**, Stern J, Maleche-Obimbo E, Walmalwa DC, John-Stewart G: Brief Report: Cofactors of mortality among hospitalized HIV-infected children initiating antiretroviral therapy in Kenya. *J Acquir Immune Defic Syndr*, 81: 138-144, 2019. PMID: PMC6609091.
291. Arndt MB, **Richardson BA**, Mahfuz M, Ahmed T, Haque R, Gazi MA, John-Stewart GC, Denno DM, Scarlett JM, Walson JL: Plasma fibroblast growth factor 21 is associated with subsequent growth in a cohort of underweight children in Bangladesh. *Curr Dev Nutr*, 3(5): nzz024, 2019. PMID: PMC6511337.
292. Sabo MC, **Richardson BA**, Lavreys L, Martin HL, Jaoko W, Mandaliya K, Baeten JM, Overbaugh J, McClelland RS: Does bacterial vaginosis modify the effect of hormonal contraception on HIV seroconversion. *AIDS*, 33: 1225-1230, 2019. PMID: PMC6501800.

293. Wilson KS, Mugo C, Moraa H, Onyango A, Nduati M, Inwani I, Bukusi D, Slyker J, Guthrie BL, **Richardson BA**, John-Stewart GC, Wamalwa D, Kohler PK: Health provider training is associated with improved engagement in HIV care among adolescents and young adults in Kenya. *AIDS*, 33: 1501-1510, 2019. PMID: PMC6746576.
294. Marrazzo JM, Rabe L, Kelly C, **Richardson B**, Deal C, Schwartz JL, Chirenje ZM, Piper J, Morrow RA, Hendrix CW, Hillier SL; VOICE Study Team: Tenofovir gel for prevention of herpes simplex virus type-2 acquisition: Findings from the VOICE Trial. *J Infect Dis*, 219: 1940-1947, 2019. PMID: PMC6534189.
295. LaCourse SM, Wagner AD, Cranmer LM, Copeland A, Maleche-Obimbo E, **Richardson BA**, Matemo D, Kinuthia J, John-Stewart G: Brief Report: High programmatic Isoniazid preventive therapy (IPT) use in pregnancy among HIV-infected women. *J Acquir Immune Defic Syndr*, 82: 41-45, 2019. PMID: PMC6697133.
296. Masyuko SJ, Cherutich PK, Contesse MB, Maingi PM, Wamuti BM, Macharia PM, Bukusi DE, Otieno FA, Spiegel HM, Dunbar MD, Golden MR, **Richardson BA**, Farquhar C: Index participant characteristics and HIV assisted partner services efficacy in Kenya: results of a cluster randomized trial. *J Int AIDS Soc*, 22: e25305, 2019. PMID: PMC6639668.
297. Wilson K, Wagner AD, Inwani IW, Means K, Bukusi D, Slyker J, John-Stewart G, **Richardson BA**, Nduati M, Moraa H, Wamalwa D, Kohler P: Pilot evaluation of a standardized patient actor training intervention to improve HIV care for adolescents and young adults in Kenya. *AIDS Care*, 31: 1250-1254, 2019. PMID: PMC6663595.
298. Eastment MC, Wanje G, **Richardson BA**, Nassir F, Mwaringa E, Barnabas RV, Sherr K, Mandaliya K, Jaoko W, McClelland RS: Performance of family planning clinics in conducting recommended HIV counseling and testing in Mombasa County, Kenya: a cross-sectional study. *BMC Health Serv Res*, 19: 665, 2019. PMID: PMC6744633.
299. Mark J, Kinuthia J, Osoi AO, Gone MA, Asila V, Krakowiak D, Sharma M, Parikh S, Ton QT, **Richardson BA**, Farquhar C, Roxby AC: Male partner linkage to clinic-based services for sexually transmitted infections and human immunodeficiency virus services following couple home-based education and testing. *Sex Transm Dis*, 46: 716-721, 2019.
300. Greene SA, De Vuyst H, John-Stewart GC, **Richardson BA**, McGrath CJ, Marson KG, Trinh TT, Yatich N, Kiptinness C, Cagle A, Nyongesa-Malava E, Sakr Sr, Mugo NR, Chung MH: Effect of cryotherapy versus loop electrosurgical excision procedure on cervical disease recurrence among women with HIV and high-grade cervical lesions in Kenya: A randomized trial. *JAMA*, 322: 1570-1579, 2019. PMID: PMC6806442.
301. Silverman RA, John-Stewart GC, Beck IA, Milne R, Kiptinness C, McGrath CJ, **Richardson BA**, Chohan B, Sakr SR, Frenkel LM, Chung MH: Predictors of mortality within the first year of initiating antiretroviral therapy in urban and rural Kenya: A prospective cohort study. *PLoS One*, 14(10): e0223411, 2019. PMID: PMC6777822.
302. Naiman NE, Slyker J, **Richardson BA**, John-Stewart G, Nduati R, Overbaugh JM: Antibody-dependent cellular cytotoxicity targeting CD4-inducible epitopes predicts mortality in HIV-infected infants. *EBioMedicine*, 47: 257-268, 2019. PMID: PMC6796543.
303. Osoi AO, Page ST, **Richardson BA**, Guthrie BL, Kinuthia J, Polyak SJ, Farquhar C: Postpartum metabolic syndrome after gestational hypertension and preeclampsia, a prospective cohort study. *Pregnancy Hypertens*, 18: 35-41, 2019. PMID: PMC6884686.

304. Roxby AC, Yuhas K, Farquhar C, Bosire R, Mbori-Ngacha D, **Richardson BA**, Totten PA, John-Stewart G: Mycoplasma genitalium infection among HIV-infected pregnant African women and implications for mother-to-child transmission of HIV. *AIDS*, 33: 2211-2217, 2019. PMID: PMC6832839.
305. Jarrett OD, Srinivasan S, **Richardson BA**, Fiedler T, Wallis JM, Kinuthia J, Jaoko W, Mandaliya K, Fredricks DN, McClelland RS: Specific vaginal bacteria are associated with increased risk of *Trichomonas vaginalis* acquisition in women. *J Infect Dis*, 220: 1503-1510, 2019. PMID: PMC6761949.
306. Deichsel EL, Pavlinac PB, **Richardson BA**, Mbori-Ngacha D, Walson JL, McGrath CJ, Farquhar C, Bosire R, Maleche-Obimbo E, John-Stewart GC: Birth size and early pneumonia predict linear growth among HIV-exposed uninfected infants. *Matern Child Nutr*, 15(4): e12861, 2019. PMID: PMC6859978.
307. LaCourse SM, **Richardson BA**, Kinuthia J, Warr AJ, Maleche-Obimbo E, Matemo D, Cranmer LM, Escudero JN, Hawn TR, John-Stewart GC: Infant TB Infection Prevention Study (iTIPS): a randomised trial protocol evaluating isoniazid to prevent *M. tuberculosis* infection in HIV-exposed uninfected children. *BMJ Open*, 10(1): e034308, 2020. PMID: PMC7045242.
308. Sabo M, Lehman D, Wang B, **Richardson BA**, Srinivasan S, Osborn L, Matemo D, Kinuthia J, Fiedler TL, Munch MM, Drake AL, Fredricks DN, Overbaugh J, John-Stewart G, McClelland RS, Graham SM: Associations between vaginal bacteria implicated in HIV acquisition risk and proinflammatory cytokines and chemokines. *Sex Transm Inf*, 96: 3-9, 2020. PMID: PMC6920574.
309. Lokken EM, Mandaliya K, Srinivasan S, **Richardson BA**, Kinuthia J, Lannon S, Jaoko W, Alumera H, Kemoli A, Fay E, John-Stewart G, Fredricks DN, McClelland RS: Impact of preconception vaginal microbiota on women's risk of spontaneous preterm birth: protocol for a prospective case-cohort study. *BMJ Open*, 10(2):e035186, 2020. PMID: PMC7045118.
310. Attia EF, Bhatraju PK, Triplette M, Kosamo S, Maleche-Obimbo E, West TE, **Richardson B**, Zifodya JS, Eskander S, Njiru CD, Warui D, Kicska GA, Chung MH, Crothers K, Liles WC, Graham SM: Endothelial activation, innate immune activation, and inflammation are associated with postbronchodilator airflow limitation and obstruction among adolescents living with HIV. *J Acquir Immune Defic Syndr*, 83: 267-277, 2020.
311. Larsen A, Wilson K, Kinuthia J, John-Stewart G, **Richardson BA**, Pintye J, Abuna F, Lagat H, Owens T, Kohler P: Standardised patient encounters to improve quality of counselling for pre-exposure prophylaxis (PrEP) in adolescent girls and young women (AGYM) in Kenya: study protocol of a cluster randomised controlled trial. *BMJ Open*, 10(6):e035689, 2020. PMID: PMC7311012.
312. Mochache V, **Richardson BA**, Masese LN, Graham SM, Mandaliya K, Kinuthia J, Jaoko W, Overbaugh J, McClelland RS: Older age at infection and nulliparity are associated with long-term non-progression in female sex workers with non-subtype B HIV-1. *Intl J STD AIDS*, 31: 510-516, 2020. PMID: PMC7375799.
313. Seiler C, Bayless NL, Vergara R, Pintye J, Kinuthia J, Osburn L, Matemo D, **Richardson BA**, John-Stewart G, Holmes S, Blish CA: Influenza-induced interferon lambda response is associated with longer time to delivery among pregnant Kenyan women. *Front Immunol*, 11:452, 2020. PMID: PMC7089959.
314. Njuguna I, Neary J, Mburu C, Black D, Beima-Sofie K, Wagner AD, Mugo C, Evans Y, Guthrie B, Itindi J, Onyango A, Oyiengo L, **Richardson BA**, Wamalwa D, John-Stewart G: Clinic-level and individual-level factors that influence HIV viral suppression in adolescents and young adults: a national survey in Kenya. *AIDS*, 34: 1065-1075, 2020. PMID: PMC7274775.

315. Ramadoss NS, Zhao NQ, **Richardson BA**, Grant PM, Kim PS, Blish CA: Enhancing natural killer cell function with gp41-targeting bispecific antibodies to combat HIV infection. *AIDS*, 34: 1313-1323, 2020. PMID: PMC7595577.
316. Deichsel EL, John-Stewart GC, Walson JL, Mbori-Ngacha D, **Richardson BA**, Guthrie BL, Farquhar C, Bosire R, Pavlinac PB: Examining the relationship between diarrhea and linear growth in Kenyan HIV-exposed, uninfected infants. *PLoS One*, 15(7): e0235704, 2020. PMID: PMC7384652.
317. Lokken EM, Wanje G, **Richardson BA**, Mutunga E, Wilson KS, Jaoko W, Kinuthia J, McClelland RS: Brief Report: Incidence and correlates of pregnancy in HIV-positive Kenyan sex workers. *J Acquir Immune Defic Syndr*, 85: 11-17, 2020.
318. Wamuti B, Contesse MG, Maingi P, Macharia P, Abuna F, Sambai B, Ng'ang'a A, Spiegel H, **Richardson B**, Cherutich P, Bukusi D, Farquhar C: Factors associated with poor linkage to Human Immunodeficiency Virus care among index clients and sex partners receiving Human Immunodeficiency Virus assisted partner services in Kenya. *Sex Transm Dis*, 47: 610-616, 2020. PMID: PMC7447121.
319. Sabo MC, Lehman DA, Pintye JC, Wang B, Drake AL, Kinuthia J, Osborn L, Matemo D, **Richardson BA**, Overbaugh J, John-Stewart G, Graham SM: Elevation of cervical C-X-C motif chemokine ligand 10 levels is associated with HIV-1 acquisition in pregnant and postpartum women. *AIDS*, 34: 1725-1733, 2020.
320. Tickell KD, Diakhate MM, Goodman JL, Unger JA, **Richardson BA**, Rubin Means A, Ronen K, Levin C, Choo EM, Achieng C, Masheti M, Singa BO, McGrath CJ: Impact of a two-way short message service (SMS) to support maternally administered childhood mid-upper arm circumference monitoring and expand malnutrition screening in Kenya: the Mama Aweza trial protocol. *BMJ Open*, 10(9):e036660, 2020. PMID: PMC7509951.
321. Blain M, **Richardson BA**, Kinuthia J, Poole DN, Jaoko W, Wilson KS, Kaggiah A, Simoni JM, Farquhar C, McClelland RS: Psychosocial factors, condomless sex, and detectable viral load in HIV-positive women in serodiscordant couples in Nairobi, Kenya. *AIDS Behav*, 24:3346-3358, 2020. PMID: PMC7655612.
322. Neary J, Njuguna IN, Cranmer LM, Otieno VO, Mugo C, Okinyi HM, Benki-Nugent S, **Richardson BA**, Stern J, Maleche-Obimbo E, Wamalwa DC, John-Stewart GC, Wagner AD: Newly diagnosed HIV positive children: a unique index case to improve HIV diagnosis and linkage to care of parents. *AIDS Care*, 32:1400-1405, 2020. PMID: PMC7398832.
323. Fairfortune TS, Stern JE, **Richardson BA**, Koutsky LA, Winer RL: Sexual behavior patterns and condom use in newly sexually active female university students. *Arch Sex Behav*, 49: 1053-1065, 2020.
324. Bauermeister JA, Golinkoff JM, Carballo-Diequez A, Giguere R, Lopez D, Hoesley CJ, Chen BA, Anderson P, Dezzutti CS, Strizki J, Sprinkle C, Heard F, Hall W, Jacobson C, Berthiaume J, Mayo A, **Richardson BA**, Piper J: A mixed-methods study examining adherence to and acceptability of intravaginal rings for HIV prevention: Behavioral results of MTN-027. *AIDS Behav*, 24:607-616, 2020. PMID: PMC6745293.
325. Rothschild CW, **Richardson BA**, Guthrie BL, Kithao P, Omurwa T, Mukabi J, Lokken EM, John-Stewart G, Unger JA, Kinuthia J, Drake AL: A risk scoring tool for predicting Kenyan women at high risk of contraceptive discontinuation. *Contracept X*, 2: 100045, 2020. PMID: PMC7683324.
326. Njuguna IN, Beima-Sofie K, Mburu CW, Mugo C, Neary J, Itindi J, Onyango A, **Richardson BA**, Rubin Means A, Sharma M, Weiner BJ, Wagner AD, Oyiengo L, Wamalwa D, John-Stewart G: Adolescent transition to adult care for HIV-infected adolescents in Kenya (ATTACH): study protocol for a hybrid effectiveness-implementation cluster randomized trial. *BMJ Open*, 10(12):e039972, 2020. PMID: PMC7713196.

327. Long JE, **Richardson BA**, Wanje G, Wilson KS, Shafi J, Mandaliya K, Simoni JM, Kinuthia J, Jaoko W, McClelland RS: Alcohol use and viral suppression in HIV-positive Kenyan female sex workers on antiretroviral therapy. *PLoS One*, 15(11):e0242817, 2020. PMID: PMC7685481.
328. Osofi AO, Page ST, **Richardson BA**, Guthrie BL, Kinuthia J, Polyak SJ, Farquhar C: Postpartum metabolic syndrome and high-sensitivity C-reactive protein after gestational hypertension and pre-eclampsia. *Int J Gynaecol Obstet*, 151:443-449, 2020. PMID: PMC7722223.
329. LaCourse SM, Leon D, Panpradist N, **Richardson BA**, Maleche-Obimbo E, Mecha J, Matemo D, Escudero JN, Kinuthia J, Lutz B, John-Stewart G: Urine biomarker assessment of infant adherence to isoniazid prophylaxis. *Pediatr Infect Dis J*, 40(1):e43-e45, 2021.
330. Njuguna IN, Wagner AD, Neary J, Omondi VO, Otieno VA, Orimba A, Mugo C, Babigumira JB, Levin C, **Richardson BA**, Maleche-Obimbo E, Wamalwa DC, John-Stewart G, Slyker J: Financial incentives to increase pediatric HIV testing: a randomized trial. *AIDS*, 35:125-160, 2021.

### In Press

1. LaCourse SM, **Richardson BA**, Kinuthia J, Warr AJ, Maleche-Obimbo E, Matemo D, Cranmer LM, Mecha J, Escudero JN, Hawn TR, John-Stewart G: A randomized controlled trial of isoniazid to prevent Mycobacterium tuberculosis infection in Kenyan HIV-exposed uninfected infants. *Clin Infect Dis*.
2. Eastment MC, Balkus JE, **Richardson BA**, Srinivasan S, Kimani J, Anzala O, Schwebke J, Fiedler TL, Fredricks DN, McClelland RS: Association between bacterial microbiota and vaginal yeast colonization. *J Infect Dis*.

### Papers Submitted to Refereed Journals

#### Papers in Progress

#### b) Other Refereed Scholarly Publications

#### Letters in Refereed Journals

1. Nduati R, Mbori-Ngacha D, John G, **Richardson B**, Kreiss J: Breastfeeding in women with HIV (response to letters regarding Nduati, *et al*, *JAMA*, 283:1167-1174, 2000). *JAMA*, 284:956-957, 2000.
2. Nduati R, **Richardson BA**, John G, Mbori-Ngacha D, Kreiss J: Breastfeeding in HIV-1-positive mothers (response to letters regarding Nduati *et al*, *Lancet*, 357:1651-1655, 2001). *Lancet*, 358:1095-1096, 2001.
3. Mbori-Ngacha D, Nduati R, John-Stewart G, **Richardson B**, Kreiss J: Breastfeeding vs formula-feeding among HIV-infected women in resource-poor areas (response to letters regarding Mbori-Ngacha, *et al*, *JAMA*, 286:2413-2420, 2001). *JAMA*, 287: 1110-1113, 2002.
4. Fleming TR, **Richardson BA**: Reply to Skoler *et al.* and to Stein and Susser (response to letters regarding Fleming and Richardson, *J Infect Dis*, 190, 666-674, 2004). *J Infect Dis*, 191: 1379-1380, 2005.
5. Baeten JM, **Richardson BA**, Lavreys L, Rakwar JP, Mandaliya K, Bwayo JJ, Kreiss JK: Reply to Poterrat (response to letter regarding Baeten, *et al*, *J Infect Dis*, 191, 546-553, 2005). *J Infect Dis*, 191: 2155-2156, 2005.



6. Otieno PA, Brown ER, **Richardson BA**, John-Stewart G: Reply to Kuhn et al (response to letter regarding Otieno et al, *J Infect Dis*, 195, 220-229, 2007). *J Infect Dis*, 195, 1729-1730, 2007.
7. Walson JL, **Richardson BA**, John-Stewart G: Response to ‘Which helminth coinfections really affect HIV disease progression?’. *AIDS*, 23, 277-278, 2009.
8. Harrison P, Mellors JW, **Richardson B**, Masse BR, Karim QA, Karim SA, *et al* : Challenges in HIV-prevention microbicide research, E-letter response to ‘Whither or wither microbicides ?’. *Science* <http://www.sciencemag.org/cgi/eletters/321/5888/532#11839>, 2009.
9. McCormack S, Taylor D, **Richardson B**, Darbyshire J, Sattentau Q, Karim Q, Karim S, Kharsany A, Lacey C, Nunn A, Weber J: Letter regarding Tao W, Richards C, Hamer D, *AIDS Res Hum Retrovirus*, 24:1-5, 2008. *AIDS Res Hum Retrovirus*, 25, 373, 2009.
10. Noguchi LM, **Richardson BA**, Balkus JE, Marrazzo JM: Interpretation, communication, and mechanisms of associations between injectable contraception and HIV risk - Authors’ reply. *Lancet HIV*, 2, e366-e367, 2015.

### c) Books and book chapters

1. Sorenson SB, Peterson JG, **Richardson BA**: Child homicide in the city of Los Angeles: an epidemiological examination of a decade of deaths. In: ”Violence and Sexual Abuse at Home: Current Issues in Spousal Battering and Child Maltreatment”. (Geffner R, Sorenson SB, Lundberg-Love P, eds.). Binghamton, New York: Haworth Press, 1997.

### d) Other Published Scholarly Papers (proceedings, policy papers and reviews, book chapters, etc.)

1. **Richardson, B**: The analysis of incomplete data in the three-period two-treatment crossover design for clinical trials. Ph.D. Thesis, Department of Biostatistics, University of California, Los Angeles, 1993.
2. Hughes JP, **Richardson, BA**: Estimation of the joint distribution of infection time and death time for vertical transmission of HIV-1. University of Washington, Department of Biostatistics, Technical Report No. 162, 1999.
3. **Richardson, BA**, Hughes JP: Modeling breastmilk infectivity in HIV-1 infected mothers. University of Washington, Department of Biostatistics, Technical Report No. 180, 2002.
4. **Richardson, BA**: Nonoxynol-9 vaginal gel increased the risk of HIV-1 infection in female sex workers (invited commentary). *Evidence-Based Obstetrics and Gynecology*, 5, 22-23, 2003.
5. John-Stewart GC, Jonnalagadda S, **Richardson BA**: Exclusive breastfeeding and HIV-1 transmission. *Future HIV Ther*, 1, 157-160, 2007.

### 8. Patents and other intellectual property

None indicated

**9. Funding History****a) Funded Projects****Grants and Contracts as Principal Investigator**

1. University of Washington Royalty Research Fund Grant: Survival Distribution Estimates when Test Sensitivity and Specificity for Outcome are Less Than 100%. Principal Investigator, 3/1/98 to 2/28/99, \$14,054.
2. National Institute of Child Health and Development: Hormonal Contraception and Risk of HIV Acquisition and Effect of Hormonal Contraception on HIV Genital Shedding Among Women with Primary HIV Infection (Statistical Coordinating Center). Principal Investigator, 9/30/00 to 9/30/07, \$3,018,988.
3. The Global Health Program of the Bill & Melinda Gates Foundation, Puget Sound Partners for Global Health Research & Technology: HSV-2 Suppression to Reduce Maternal HIV-1 RNA Levels During Pregnancy & Breastfeeding: A Randomized Clinical Trial. Principal Investigator, 7/1/2007-7/1/2009, \$75,000.
4. National Institute of Allergy and Infectious Diseases: Clinical Research on AIDS Training Grant. Principal Investigator, 9/1/2009-2013, \$93,983.
5. National Institute of Allergy and Infectious Diseases: Leadership for HIV/AIDS Clinical Trials Networks – Microbicide Trials Network (Statistical Coordinating Center). Co-principal Investigator, 3/1/06-6/30/10; Principal Investigator 7/1/10-6/30/11; Co-principal Investigator 7/1/11-2/28/13, Principal Investigator of UW subcontract 3/1/06-11/30/21 \$28,572,164 (\$1,443,712 UW Biostatistics subcontract).
6. United States Agency for International Development: ARV Resistance. Principal Investigator for UW subcontract, 7/20/2015-7/20/2021, \$13,087.
7. National Institute of Allergy and Infectious Diseases: Leadership Group for an Infectious Diseases Clinical Research Consortium (Statistics and Data Science Unit). Principal Investigator for UW subcontract, 12/05/2019-11/30/2026, \$12,230.

**b) Pending Applications****Grants and Contracts as Principal Investigator****10. Public Health Practice Activities**

None indicated

**11. Conferences and Symposiums****Invited Talks**

Stanley Gershoff Symposium, Tufts University, Boston MA, 2001  
 ENAR Biometrics Society Meeting, Washington DC, 2002  
 Joint Statistical Meetings, San Francisco CA, 2003  
 International Society for Sexually Transmitted Diseases Research, Amsterdam, Netherlands, 2005  
 UW Center for AIDS and STD Research Symposium on Women and HIV, Seattle, 2005  
 ENAR Biometrics Society Meeting, Tampa FL, 2006  
 Joint Statistical Meetings, Seattle WA, 2006  
 HIV Vaccine Trials Network Investigators Meeting, Seattle WA, 2006

Adherence and Its Measurement in Clinical Trials, Washington DC, 2007

Advances and Challenges in STI Microbicide Research STI CRC Workshop, Panel Discussant, Chapel Hill NC, 2008

Microbicide Trials Network Annual Investigators Meeting, Arlington VA, 2009

World Health Organization Consultation: Access to PRO 2000, London, England, 2009

Best Practices for Phase I Assessment of Microbicide Safety, Washington DC, 2009

NIAID Workshop on Humoral Responses in HIV Superinfection: Implications for HIV Vaccine Design Meeting, Bethesda, MD, 2015

The Use of Mucosal Assays in Microbicide Trials, Arlington VA, 2015

Clinical Trial Evaluation Workshop for MPTs: Strategic Steps to Ensure Success, Washington DC, 2016

## 12. University Service

### Biostatistics Committee/Service

Student Relations Committee, 1996-2003  
Journal Club Committee, 1998-1999  
Ph.D. Applied Exam Grader, 1996, 1997, 1999-2004, 2006-2009  
Faculty Mentoring Committee, 2000  
Faculty Search Committee, 2003-2005  
M.S. Theory Exam Committee, 2005  
Informal Seminar Series Co-Chair, 2005  
Endowments and Awards Committee, 2006  
Member, Admissions Committee, 2006-present  
Co-Chair, Admissions Committee, 2011-2012  
Chair, Admissions Committee, 2012-present  
Promotion Committees, 2012-2014, 2016  
Chair, Promotion Committee, 2017  
Member, Task Force on Professionalism, 2019  
Student Faculty Advocate, 2020-present

### University Service

Member, Biostatistics Core Advisory Committee, Center for AIDS Research, University of Washington, 1998-present  
Director, Biostatistics Track, Fogarty International AIDS Research and Training Program, University of Washington, 2003-present  
UW Faculty Senate, 2006-2007  
Member, Search Committee for Clinical Epidemiologist, UW Department of Global Health, 2007-2008  
Member, Search Committee for 2 Infectious Disease Clinical Epidemiologists, UW Department of Global Health, 2008-2009  
Member, Search Committee for Assistant Professor, UW Department of Global Health, 2020

## 13. Professionally-Related Community Service

Member, Board of Directors, First Hill Child Learning Center, Seattle, WA, 1997-1999  
Member, Annual Giving Committee, The Meridian School, Seattle, WA, 2005-2010  
Member, Committee on Trustees, The Meridian School, Seattle, WA, 2007-2008, 2011, 2017  
Member, Finance Committee, The Meridian School, Seattle, WA, 2007-2014  
Member, Board of Trustees, The Meridian School, Seattle, WA, 2007-2017  
Chair, Development Committee, The Meridian School, Seattle, WA 2008-2009  
Vice Chair of Board of Trustees, The Meridian School, Seattle, WA, 2009-2010  
Treasurer, Board of Trustees, The Meridian School, Seattle, WA, 2012-2013  
Member, Marketing Committee, The Meridian School, Seattle, WA, 2014-2016  
Member, Development Committee, The Bush School, Seattle, WA, 2013-2016  
Member, Board of Trustees, The Bush School, Seattle, WA, 2014-2020  
Member, A&A Committee, The Bush School, Seattle, WA, 2015-2018  
Chair, A&A Committee, The Bush School, Seattle, WA, 2016-2018  
Member, Mercer Island Youth and Family Services Foundation Board, 2016-2019

## 14. Other Pertinent Information As Needed

### Research Interests

Statistical methods for incomplete data, statistical methodology for clinical trials data; longitudinal data analysis; statistical methods for AIDS and STD data.

## 15. Teaching History

### a) Formal Teaching

Biostatistics 580A (Seminar), Spring 2002

Biostatistics 590A (Consulting), Summer 2004

Biostatistics 580C (Informal Seminar), Fall 2005, Winter 2006, Spring 2006

### b) Other Teaching

Instructor, Principles of STD and HIV Research, The Center for AIDS and STD, University of Washington, 1999-2009

Instructor, Responsible Conduct of Research, International AIDS Research and Training Program, University of Washington, 2003-present

Lecturer, Biostatistics 111 (Lectures in Applied Statistics), 2001, 2005-2007

Lecturer, Nursing 587 (Role Transition Seminar), 2005

Lecturer, Nursing Methods 515/Epidemiology 549 (Sociobehavioral and Prevention Research Methods in HIV & STIs), 2006

Lecturer, Global Health 564/Epidemiology 507/ObGyn 590 (HIV and STIs in Women and Children), 2007-2010, 2012-2013

Lecturer, University of Nairobi Institute of Tropical and Infectious Disease Fellowship, 2010

### c) Independent Study

Susan Ewing, Spring 1998

Li Wang, Spring & Fall 1998, Winter & Spring 1999

Maureen Reiner, Spring & Fall 1998, Winter, Spring & Fall 1999, Spring & Summer 2000

Caroline Jiang, Spring 2000

Darcy Jennings, Winter 2003

James Ochieng, Spring 2003

Frankline Onchiri, Winter 2005, Academic year 2006-2007

Jessie Wen Gu, Fall 2006

Betsy Teeple, Academic year 2006-2007

Katie Davis, Fall 2006

Brett Hanscomb, Winter 2010, Spring 2010

Emily Voldal, Fall 2017

Ningxin Ma, Spring 2020

## 16. Advising and Formal Mentoring

### a) PhD Dissertations, chair

Amalia Meier, 2001

### b) Master's Thesis, chair

Susan Ewing, 1999

Maureen Reiner, 2002

James Ochieng Okuma, 2004

Frankline Onchiri, 2007

Rachel Debes, 2011

Ningxin Ma, current

### c) Mentored Scientists and Postdocs

Katie Odem-Davis, 2010-2013

**d) Thesis/Dissertation committees in non-chair role**MS/MPH Committee Member

Ann Yunker (Biostat), 2000  
James Kiarie (Epi), 2001  
Isaac Malonza (Epi), 2001  
Scott McClelland (Epi), 2001  
Carey Farquhar (Epi), 2001  
Nadia Howlader (Biostat), 2002  
Melanie Taylor (Epi), 2002  
Elizabeth Obimbo (Epi), 2002  
Phelgona Otieno (Epi), 2002  
San-San Ou (Biostat), 2003  
Rich Jensen (Biostat), 2005  
Romel Mackelprang (Epi), 2006  
Natasha Close (Epi), 2007  
Linnet Masese (Epi), 2008  
Rob Wellman (Biostat), 2008  
David Katz (Epi), 2008  
John Kinuthia (Epi), 2009  
Lee Pyne-Mercier (Epi), 2009  
Henry Fischer (Health Services), 2010  
Agnes Langat, (Epi), 2011  
Alfred Osoti (Epi), 2013  
Carolyn Othieno (Global Health), 2014  
Marielle Goyette (Epi), 2015  
Ethan Wilson (Biostat), 2016  
Mckenna C. Eastment (Epi), 2016  
Tessa Carlson (Epi), 2016  
Sarah Masyuko (Global Health), 2016  
Minnie Kibore (Global Health), 2016  
Irene Mukui (Epi), 2018  
Margaret Mburu (Epi), 2019  
Huong Chu (Global Health), 2020  
Michelle Shin (Global Health), 2020

Ph.D. Committee Member

Sara Mostad (Epi), 1997  
Shuguang Song (Stat), 2001  
Elizabeth Bukusi (Epi), 2006  
Bhavna Chohan (Pathobio), 2007  
Brandon Guthrie (Epi), 2009  
Catherine Wetmore (Epi), 2009  
Richard Jensen (Epi), 2009  
Laura Sangare (Epi), 2010  
Katie Davis (Biostat), 2010  
Romel Mackelprang (Epi), 2010  
Alison Drake (Epi), 2010  
Jennifer Balkus (Epi), 2012  
Christine McGrath (Epi), 2011  
Amy Liu (Epi), 2012  
Anna Coghill (Epi), 2012  
Betsy Teeple (Biostat), 2013  
Tanya Granston (Biostat), 2013  
Renee Heffron (Epi), 2012

Kristin Beima-Sofie (IPHG), 2013  
Helen Gerns (Epi), 2013  
Amy Laird (Biostat), 2013  
Linnet Masese (Epi), 2014  
Patricia Pavlinach (Epi), 2014  
Frankline Onchiri (Epi), 2014  
Caitlin Milligan (Pathobio), 2015  
Andrew Mujugira (Epi), 2016  
Jennifer Mark (Epi), 2019  
Mike Arndt (Epi), 2016  
Marla Husnik (Epi), 2020  
Sharon Greene (Epi), 2018  
Natasha Close (Epi), 2019  
Marielle Goyette (Epi), 2017  
Emily Deichsel (Epi), 2018  
Jennifer Velloza (Epi), 2019  
Alfred Osoi (Epi), 2018  
Catherine Henley (Epi), current  
Kirk Tickell (Epi), current  
Wenwen Jiang (Epi), current  
Anna Larsen (Epi), current  
Jillian Neary (Epi), current  
Yasaman Zia (Epi), current  
Dorothy Thomas (Global Health), current

**e) Other Mentoring**

**Research Assistants – Supervision and Funding**

Biostatistics students

Maureen Reiner, Summer 1998 – Summer 2000 (50% time supervision and funded)  
Li Wang, Summer 1998 – Spring 1999 (25% time supervision and funded)  
Amalia Meier, Spring 2000 - Fall 2001 (25% time supervision and funded)  
Mary Redman, Spring 2002-Fall 2003 (50% time supervision and funded)  
Peggy Chrisman, Summer 2006-Spring 2007 (50% time supervision and funded)  
Betsy Teeple, Summer 2007-Winter 2009 (25% time supervision and funded)

Students from other departments

Jared Baeten (Epidemiology, MD/PhD), Summer 1997 – Summer 1998 (50% time supervision)  
Matthew Steele (Epidemiology), Fall 2000-Winter 2002 (50% time supervision)  
Katrina Moore (Epidemiology), Fall 2003 – Spring 2004 (50% time supervision)

**FHCRC Dual Mentoring Program**

Dara Lehman (Molecular and Cellular Biology, PhD student), co-mentor with Dr. Julie Overbaugh, 2004-2008  
Leslie Goo (Pathobiology, PhD student), co-mentor with Dr. Julie Overbaugh, 2011-2013  
Keshet Ronen (postdoctoral fellow), co-mentor with Dr. Julie Overbaugh, 2013-2014

**f) Academic advising**

Susan Ewing, 1997-1999  
Li Wang, 1997-1999  
James Ochieng Okuma, 2002-2004  
Rob Wellman, 2004-2010  
Frankline Onchiri, 2005-2007

Erin Gabriel, 2007-2012  
Laura Yee, 2008-2012  
Leigh Fisher, 2010-2013  
Scott Coggeshall, 2011-2014  
Fedelis Mutiso, 2013-2015