

**CURRICULUM VITAE****Barbra A. Richardson, PhD****1. Biographical Information***Address:*

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**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  
Assistant Professor, Biostatistics, Public Health Sciences Division, Fred Hutch, 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  
Associate Professor, Biostatistics, Public Health Sciences Division, Fred Hutch, 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 and Vaccine and Infectious Disease Divisions, Fred Hutch, 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, 2019-2021
- 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
- Member, IDMC, Gilead Sciences Clinical Trial, 2021-present
- Member, DSMB for “*Women SHINE: Addressing Trauma from Interpersonal Violence through a Web-based Peer Navigation-Social Support Intervention to Improve ART Adherence among Women*”, 2022-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*

*Frontiers in Public Health*

*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*  
*Nature Microbiology*  
*PLoS One*  
*Sexually Transmitted Diseases*  
*Statistics in Medicine*  
*The American Journal of the Medical Sciences*  
*The Lancet*  
*The Lancet Infectious Diseases*

## 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 SIVmne 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-Kigundu 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.
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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.
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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.
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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.
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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.
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- women living with and without HIV. *J Acquir Immune Defic Syndr*, 89:98-107, 2022. PMID: PMC8665065.
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353. Maqsood R, Skidmore PT, Holland LA, Au JL, Khan AK, Wu LI, Ma N, Begnel ER, Chohan BH, Adhiambo J, John-Stewart G, Kiarie J, Kinuthia J, Chung MH, **Richardson BA**, Slyker J, Lehman DA, Lim ES: Dynamic changes in breast milk microbiome in the early postpartum period of Kenyan women living with HIV are influenced by antibiotics but not antiretrovirals. *Microbiol Spectr*, 10(2):e0208021, 2022. PMID: PMC35384692.
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355. Wamalwa D, Njuguna I, Maleche-Obimbo E, Begnel E, Chebet DJ, Onyango JA, Cranmer LM, Huang ML, **Richardson BA**, Boeckh M, John-Stewart G, Slyker J: Cytomegalovirus viremia and clinical outcomes in Kenyan children diagnosed with HIV in hospital. *Clin Infect Dis*, 74:1237-1246, 2022. PMID: PMC8994579.

## In Press

1. Pavlinac P, Singa B, Huang ML, Shrestha L, Li V, Atlas HE, Diakhate MM, Brander R, Meshak L, Bogonko G, Tickell KD, McGrath CJ, Machuara IM, Ounga DO, Berkley J, **Richardson BA**, John-Stewart G, Walson JL, Slyker J: Cytomegalovirus viremia predicts post-discharge mortality in Kenyan HIV-exposed uninfected children. *J Infect Dis*.

2. Larsen AM, Osborn L, Ronen K, **Richardson BA**, Jiang W, Chohan B, Matemo D, Unger JA, Drake AL, Kinuthia J, John-Stewart G: Trajectories of depression symptoms from pregnancy through 24 months postpartum among Kenyan women living with HIV. *J Acquir Immune Defic Syndr*.
3. Shin MB, Ko LK, Ibrahim A, Mohamed FB, Lin J, Celentano I, Shankar M, Amsalu F, Ali AA, **Richardson BA**, Taylor VM, Winer RL: The impact of a comic book intervention on East-African-American adolescents' HPV vaccine-related knowledge, beliefs and intentions. *J Immigr Minor Health*.

### 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: "Hair Extensions": Using Hair Levels to Interpret Adherence, Effectiveness and Pharmacokinetics with Real-World Oral PrEP, the Vaginal Ring, and Injectables. Principal Investigator for UW subcontract, 03/01/2021-02/28/2022, \$25,264.
8. 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

### UW 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, 2020-present  
Chair, Admissions Committee, 2012-2020  
Promotion Committees, 2012-2014, 2016  
Chair, Promotion Committee, 2017  
Member, Task Force on Professionalism, 2019  
Student Faculty Co-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 infectious disease 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, Academic year 2020-2021

## 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, 2021

### 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  
Shengruo Zhang (Epi), current

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 Pavlinac (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), 2021  
 Wenwen Jiang (Epi), current  
 Anna Larsen (Epi), current  
 Jillian Neary (Epi), current  
 Yasaman Zia (Epi), current  
 Dorothy Thomas (Global Health), current  
 Melody Wang (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