

CURRICULUM VITAE

Barbra A. Richardson, PhD

1. Biographical Information

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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
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
Joint Member, 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

September 17, 2019

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, Data Safety and Monitoring Board 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, Data Safety and Monitoring Board for Theratechnologies Inc. Protocol TH9507/III/LIPO/010, 2005-2007
Member, Data Safety and Monitoring Board for Theratechnologies Inc. Protocol TH9507/III/LIPO/011, 2006-2008
Chair, Data Safety and Monitoring Board 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, Data Safety and Monitoring Board 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, Data Safety and Monitoring Board 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, Data Safety and Monitoring Board 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, Data Safety and Monitoring Board 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, Data Safety and Monitoring Board 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, Data Safety and Monitoring Board 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, Data Safety and Monitoring Board 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

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

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

Statistical Consultant, PATH, 2017-present

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

Member, Mock FDA Panel, Gilead Sciences, 2019

Member, DSMB for homeless shelter intervention sub-study, Seattle Flu Study, Brotman-Baty Institute, UW, Seattle Children’s, FHCRC, 2019-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 Medicine

PLoS One

Sexually Transmitted Diseases

Statistics in Medicine

The American Journal of the Medical Sciences

The Lancet

The Lancet Infectious Diseases

Current and Previous Membership in Professional Organizations:

American Statistical Association

Biometric Society, WNAR

International AIDS Society

Society for Clinical Trials

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_{mne} 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.

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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.
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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.
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.
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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.
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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.
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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.
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In Press

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9. 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*.
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11. 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*.

Papers Submitted to Refereed Journals

1. Eastment MC, Balkus JE, **Richardson BA**, Srinivasan S, Kimani J, Anzala O, Schwebke J, Fiedler BS, Fredricks DN, McClelland RS: Association between vaginal bacterial microbiota and vaginal yeast colonization. *J Infect Dis*.
2. 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. *J Acquir Immune Defic Syndr*.

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 3/1/06-11/30/20 \$28,572,164 (\$1,443,712 UW Biostatistics subcontract).
6. United States Agency for International Development: ARV Resistance. Principal Investigator for UW subcontract, 7/20/2015-7/20/2020, \$13,087.

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

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
Faculty Senate, 2006-2007
Member, Search Committee for Clinical Epidemiologist, Department of Global Health, 2007-2008
Member, Search Committee for 2 Infectious Disease Clinical Epidemiologists, Department of Global Health, 2008-2009

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-present
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-present

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

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

c) Mentored Scientists and Postdocs

Katie Odem-Davis, 2010-2013

d) Thesis/Dissertation committees in non-chair roleMS/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), current
Michelle Shin (Global Health), 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 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), current
 Sharon Greene (Epi), 2018
 Natasha Close (Epi), 2019
 Marielle Goyette (Epi), 2017
 Xiaochen Dai (Global Health), current
 Emily Deichsel (Epi), 2018
 Jennifer Velloza (Epi), 2019
 Alfred Osoi (Epi), 2018
 Catherine Henley (Epi), current
 Kirk Tickell (Epi), 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