

SETH L. WELLES: CURRICULUM VITAE

CONTACT INFORMATION

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EDUCATION

1979 B.A., Biology, Boston University, Boston, MA
1986 Ph.D., Cellular Biology, Boston University, Boston, MA
1986-89 Post-doctoral training, Developmental Cellular Biology, Tufts University School of
Medicine, Boston, MA
1992 Sc.D., Epidemiology, Harvard School of Public Health, Boston, MA
1992-95 Post-doctoral training, Statistical and Data Analysis Center, Department of
Biostatistics, Harvard School of Public Health, Boston, MA

PROFESSIONAL EXPERIENCE

2017- **Director of Graduate Studies**, Department of Epidemiology and Biostatistics,
Dornsife School of Public Health, Drexel University, Philadelphia, PA (includes both
PhD and MS programs in Epidemiology)

2015-2017 **Chair**, Appointments, Promotions & Tenure Committee, Dornsife School of Public
Health, Drexel University, Philadelphia, PA

2012-15 **Interim Chairman**, Department of Epidemiology and Biostatistics, Drexel University
School of Public Health, Philadelphia, PA

2011- **Professor**, Department of Epidemiology and Biostatistics, Dornsife School of Public
Health, Drexel University, Philadelphia, PA

2011-2017 **Director of Doctoral Studies**, Department of Epidemiology and Biostatistics, Dornsife
School of Public Health, Drexel University, Philadelphia, PA

2007-11 **Associate Professor**, Department of Epidemiology and Biostatistics, Drexel University
School of Public Health, Philadelphia, PA

2003-07 **Director**, Program in Lesbian, Gay, Bisexual, and Transgender Public Health
Research, Boston University School of Public Health

- 2001-07 **Associate Professor**, Department of Epidemiology and Biostatistics, Boston University School of Public Health, Boston, MA.
- 2000-01 **Associate Professor**, Division of Epidemiology, University of Minnesota, Minneapolis, MN.
- 1995-2000 **Assistant Professor**, Division of Epidemiology, University of Minnesota, Minneapolis, MN.
- 1994-95 **Adjunct Assistant Professor**, Department of Health and Clinical Sciences, College of Health Professions, University of Massachusetts, Lowell, MA.
- 1994-95 **Section Head**, Pediatric Virology, the Statistical and Data Analysis Center, Department of Biostatistics, Harvard School of Public Health, Boston, MA.
- 1993-94 **Adjunct Assistant Professor**, Department of Health, Management, and Policy, University of New Hampshire, Durham, NH.
- 1992-95 **Research Associate/Senior Statistician**, Adult Virology Section, the Statistical and Data Analysis Center, Department of Biostatistics, Harvard School of Public Health, Boston, MA.
- 1991-92 **Teaching Assistant in Epidemiology**, Extension School, Harvard University, Cambridge, MA.
- 1989-90 **Lecturer in Nutrition**, Sargent College of Allied Health Science, Boston University, Boston, MA.
- 1988-92 **Teaching Assistant**, Department of Epidemiology, Harvard School of Public Health, Boston, MA.
- 1988-92 **Research Assistant**, Department of Epidemiology, Harvard School of Public Health, Boston, MA.
- 1987 **Lecturer in Cellular Biology**, College of Liberal Arts, Boston University, Boston, MA.
- 1985-88 **Post-Doctoral Fellow/Research Associate**, Tufts University School of Medicine.

HONORS

- 2016-2017 Louis and Bessie Stein Fellowship, Drexel University
- 2014 Erasmus Mundus EuroPubHealth Scholar, Research and Teaching
- 2005 BUSPH teaching award: ‘The Changing HIV Pandemic’ EP750, Summer 2005
- 2000 Promotion and tenure, University of Minnesota

- 1999 Induction, Delta Omega, Pi Chapter, Society for Excellence in Public Health Research
 1985-86 Research Fellow Certification, Department of Pulmonary Medicine, NewEngland
 Medical Center Hospitals, Boston, MA
 1985 Shock Society Travel Award
 1984 Sigma Xi, Boston University Chapter, Travel Award
 1983-84 Young Investigator Award, Innovative Research of America, Gaithersburg,MD
 1981 Graduate Scholarship, Boston University
 1980-85 University Teaching Fellowship, Boston University

PUBLICATIONS

Book Chapters

Toole BP, Knudson CB, Munaim SI, Welles S, Chi-Rosso G. (1988) Hyaluronate-cell interactions and regulation of hyaluronate synthesis during embryonic limb development. In: C Abatangelo (Ed.), Cutaneous Development, Aging and Repair. Italy: Liviana Press/Fidea Research Series.

Toole BP, Knudson CB, Munaim SI, Welles S, Chi-Rosso G. (1988) Hyaluronate-cell interactions and regulation of hyaluronate synthesis during embryonic limb development. (pp.35–41). In: Z-Davidovitch (Ed.), Biological Mechanisms of Tooth Eruption and Root Resorption. Birmingham, AL: Ebsco Media.

Toole BP, Knudson CB, Munaim SI, Welles S, Knudson CB. (1989) Hyaluronate-cell interactions and growth factor regulation of hyaluronate synthesis during limb development. (pp. 138-149). The Biology of Hyaluronin, CIBA Foundation Symposium, UK (vol. 143). Chichester, England: Wiley.

Mann JM and Welles, SL. (1992) Global aspects of the HIV epidemic. In: VT DeVita, S Hellman, SARosenberg (Eds.), AIDS: Etiology, Diagnosis, Treatment, and Treatment (pp.89-98). Philadelphia: JB Lippincott Co.

Articles in Peer Reviewed Journals

Shepro D, Welles SL, Hechtman HB. (1984). Vasoactive agonists prevent erythrocyte extravasation in thrombocytopenic hamsters. *Thrombosis Res* 35:421-430.

Welles SL, Shepro D, Hechtman HB. (1985). Vasoactive amines modulate actin cables (stress fibers) and surface area in cultured bovine endothelium. *J Cell Phys* 123:337-342.

Welles SL, Shepro D, Hechtman HB. (1985). Eicosanoid modulation of stress fibers in cultured bovine aortic endothelial cells. *Inflammation* 9:439-449.

Welles SL, Tachibana N, Okayama A, Shioiri S, Ishihara S, Murai K, Mueller NE. (1994). Decreased reactivity to PPD among HTLV-I carriers in relation to virus and hematologic status. *Int J Cancer* 56:337-340.

Welles SL, Tachibana N, Okayama A, Ishizaki J, Murai K, Shioiri S, Sagawa K, Katagiri K, Mueller-NE. (1994). The distribution of T-cell subsets among HTLV-I carriers in Japan. *JAIDS* 7:509-516.

Welles SL, Tachibana N, Orav EJ, Okayama A, Ishizaki J, Mueller, NE. (1994). Changes in hematologic parameters among Japanese HTLV-I carriers. *JAIDS* 7:92-97.

Welles SL, Levine PH, Joseph EM, Goberdhan LJ, Lee S, Miotti A, Cervantes J, Bertoni M, Jaffe E, Dosik H. (1994). An enhanced surveillance program for adult T-cell leukemia in central Brooklyn. *Leukemia* 8(Suppl.1):S111-S115.

D'Aquila RT, Johnson VA, Welles SL, Japour AJ, Kuritzkes DR, DeGruttola V, Reichelderfer PS, Coombs RW, Crumpacker CS, Kahn JO, Richman DR. (1995). Zidovudine resistance and human immunodeficiency virus type 1 disease progression during antiretroviral therapy. *Annals Int Med* 122:401-408.

Fiscus SA, Welles SL, Spector SA, Lathey JL. (1995). Length of incubation times for Human Immuno-deficiency Virus cultures. *J Clinical Microbiol* 33:246-247.

Hughes MD, DeGruttola V, Welles SL. (1995). Evaluating surrogate markers. *JAIDS* 10(Suppl 2): S1-S8.

Japour AJ, Welles SL, D'Aquila RT, Johnson VA, Richman DR, Coombs R, Reichelderfer P, Kahn J, Crumpacker CS, Kuritzkes DR. (1995). Prevalence and clinical significance of zidovudine resistance mutations in human immunodeficiency virus isolated from patients following long-term zidovudine treatment. *J Infect Dis* 171:1172-1179.

Lan Y, Japour AJ, Kim S, Crumpacker CS, Welles SL, McIntosh K. (1995). A rapid, direct test for zidovudine susceptibility in clinical isolates of human immunodeficiency virus type 1 (HIV-1) from infected children. *Clinical Diagnostic Virol* 3:259-271.

Coombs RW, Welles SL, Hooper C, Reichelderfer PS, D'Aquila RT, Japour AJ, Johnson VA, Kurtzkes DR, Richman DD, Kwok S, Todd J, Jackson JB, DeGruttola V, Crumpacker CS, Kahn J. (1996). Association of plasma human immunodeficiency virus type-1 RNA level with risk of clinical progression in patients with advanced infection. *J Infect Dis* 174:704-712.

Welles SL, Jackson JB, Yen-Lieberman B, Demeter L, Japour AJ, Smeaton LM, Johnson VA, Kuritzkes DR, D'Aquila RT, Reichelderfer PS, Richman DD, Reichman RR, Fischl M, Dolin R, Coombs RW, Kahn JO, McLaren C, Todd J, Kwok S, Crumpacker CS. (1996). Prognostic value of plasma HIV-1 RNA levels in patients with advanced HIV-1 disease and with little or no prior zidovudine therapy. *J Infect Dis* 174: 696-703.

Claxton AJ, Jacobs DR, Iribarren C, Welles SL, Sidney S, Feingold K. (1998). The association between serum total cholesterol and HIV infection in a high risk cohort of young men. *J Acq Immune Defic Synd Hum Retrovirol* 17:51-57.

Welles SL, Dosik H, Joseph E, Levine PH. (1998). Undiagnosed adult T-cell leukemia/lymphoma in central Brooklyn, NY: Detection by an enhanced surveillance program. *Oncol Rep* 5:935-937.

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Welles SL. Why LGBT Health Research, Why Now: A Note from the Editor. *J LGBT Health Res* 2007 3:1-5.

*Brennan D, Hellerstedt WL, Ross MW, Welles SL, Childhood sexual abuse and adult high risk behavior for HIV/STD infection among upper Midwest men who have sex with men enrolled in a community setting. *AJPH* 2007; 97:1107-12.

*Davies DA, Welles SL, Hellerstedt WL, Ross MW. Body Image, body satisfaction and unsafe anal intercourse among men who have sex with men. *J Sex Research* 2008, 45: 1–8.

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Wilkinson JE, Saper RB, Rosen AK, Welles SL, Culpepper L. Prayer for health and primary care: Results from the 2002 National Health Interview Survey. *Fam Med* 2008; 40: 638-44.

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Salomon L, Mimiaga MJ, Husnik MJ, Welles SL, Manseau MW, Montenegro A, Huang Y, Safren SA, Koblin BA, Chesney MA, Mayer KH. Depressive symptoms, utilization of mental health care, substance use and sexual risk among young men who have sex with men (YMSM) in EXPLORE: implications for age-specific interventions In press: *AIDS and Behavior* 2009; 13:811-21.

Raj A, Reed E, Santana MC, Walley AY, Welles SL, Horsburgh CR, Flores SA, Silverman JG. The Associations of Binge Alcohol Use with HIV/STI Risk and Diagnosis Among Heterosexual African American Men. *Drug and Alcohol Dependence* 2009; 101:101-6.

Reed E, Silverman JG, Welles SL, Santana MC, Missmer SA, Raj A. Associations between perceptions and involvement in neighborhood violence and intimate partner violence perpetration among urban, African American men. *J Community Health* 2009; 34: 328-35.

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*Brennan DJ, Welles SL, Miner MH, Ross MW, Mayer KH, Rosser BRS, and The Positive Connections Team. Development of a treatment optimism scale for HIV-positive gay and bisexual men. *AIDS Care* 2009; 2: 1090-97.

Miner MH, Peterson JL, Welles SL, Jacoby SM, Rosser BR. How do social norms impact HIV sexual risk behavior in HIV-positive men who have sex with men?: multiple mediator effects. *J Health Psychol.* 2009;14:761-70.

Rosser BR, Hatfield LA, Miner MH, Ghiselli ME, Lee BR, Welles SL; Positive Connections Team. Effects of a behavioral intervention to reduce serodiscordant unsafe sex among HIV positive men who have sex with men: the Positive Connections randomized controlled trial study. *J Behav Med* 2010; 33:147-58.

*Brennan DJ, Welles SL, Miner MH, Ross MW, Rosser BR; Positive Connections Team. HIV treatment optimism and unsafe anal intercourse among HIV-positive men who have sex with men: findings from the positive connections study. *AIDS Educ Prev* 2010; 22:126-37.

Welles SL, Corbin TJ, Rich JA, Reed E, Raj A. Intimate Partner Violence Among Men Having Sex with Men, Women, or Both: Early-Life Sexual and Physical Abuse as Antecedents. *J Community Health* 2011; 36:477-85.

Welles SL, Ross MW, Banik S, Fisher LE, McFarlane M, Kachur RE, Rietmeijer C, Allensworth-Davies D. Demographic and sexual behavior comparisons of Indian and U.S. Internet samples of men who have sex with men. *Int J Sex Health* 2011; 23:90-101.

Sweet T, Welles SL. Associations of sexual identity or same-sex behaviors with history of childhood sexual abuse and HIV/STI risk in the United States. *JAIDS* 2012; 59:400-8

Teti M, Drainoni M-L, Raj A, Cozier YC, Harris C, Bright D, Welles SL. Barriers and facilitators to providing HIV-related services in churches in the African-American community: Perspectives of religious leaders and community members. *Journal of HIV and Social Services* 2011; 10: 345-62.

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Reed E, Santana MC, Bowleg L, Welles SL, Horsburgh CR, Raj A. Experiences of Racial Discrimination and Relation to Sexual Risk for HIV among a Sample of Urban Black and African American Men. *J Urban Health.* 2012 Jun 7. [Epub ahead of print]

Sweet T, Polansky M, Welles SL. Mediation of HIV/STI Risk by Mental Health Disorders Among Persons Living in the United States Reporting Childhood Sexual Abuse. J Acquir Immune Defic Syndr. 2013; 62:81-9

Reed E, Lawrence DA, Santana MC, Welles SL, Horsburgh CR, Silverman JG, Ruc JA, Raj A. Adolescent experiences of violence and relation to violence perpetration beyond young adulthood among an urban sample of Black and African American males. In press: *J Urban Health*.

*LeVasseur MT, Goldstein ND, Welles SL. A public health perspective on HIV/AIDS in Africa: Victories and unmet challenges. *Pathophysiology* 2014; 21:237-56.

Latimer B, Toporovski R, Yan J, Pankhong P, Morrow MP, Khan AS, Sardesai NY, Welles SL, Jacobson JM, Weiner DB, Kutzler MA. Strong HCV NS3/4a, NS4b, NS5a, NS5b-specific cellular immune responses induced in Rhesus macaques by a novel HCV genotype 1a/1b consensus DNA vaccine. *Hum Vaccin Immunother* 2014;10:2357-65.

Baliban SM, Michael A, Shammassian B, Mudakha S, Khan AS, Cocklin S, Zentner I, Latimer BP, Bouillaut L, Hunter M, Marx P, Sardesai NY, Welles SL, Jacobson JM, Weiner DB, Kutzler MA. An optimized, synthetic DNA vaccine encoding the toxin A and toxin B receptor binding domains of *Clostridium difficile* induces protective antibody responses in vivo. *Infect Immun* 2014; 82:4080-91.

*Goldstein ND, Newbern EC, Evans AA, Drezner K, Welles SL. Choice of measures of vaccination and estimates of risk of pediatric pertussis. *Vaccine* 2015; 33:3970-5.

*Goldstein ND, Welles SL, Burstyn I. To be or not to be: Bayesian correction for misclassification of self-reported sexual behaviors among men who have sex with men. In press: *Epidemiology* 2015; 26:637-44.

*Goldstein ND, Burstyn I, LeVasseur MT, Welles SL. Drug use among men by sexual behaviour, race and ethnicity: Prevalence estimates from a nationally representative US sample. *Int J Drug Policy*. 2016 Jan 18. pii: S0955-3959(16)00031-1. doi: 10.1016/j.drugpo.2016.01.008. [Epub ahead of print]

Jacobson JM, Routy JP, Welles S, DeBenedette M, Tcherepanova I, Angel JB, Asmuth DM, Stein DK, Baril JG, McKellar M, Margolis DM, Trottier B, Wood K, Nicolette C. Dendritic Cell Immunotherapy for HIV-1 Infection Using Autologous HIV-1 RNA: A Randomized, Double-Blind, Placebo-Controlled Clinical Trial. *J Acquir Immune Defic Syndr*. 2016; 72: 31-8.

*Goldstein ND, Burstyn I, Newbern EC, Tabb LP, Gutowski J, Welles SL. Bayesian Correction of Misclassification of Pertussis in Vaccine Effectiveness Studies: How Much Does Underreporting Matter? *Am J Epidemiol*. 2016 Jun 1;183(11):1063-70.

Sun J, Patel F, Kirzner R, Newton-Famous N, Owens C, Welles SL, Chilton M. The Building Wealth and Health Network: Methods and baseline characteristics from a randomized controlled trial for families with young children participating in Temporary Assistance for Needy Families (TANF). *BMC Public Health* 2016; 16:583.

Liu L, Yang X, Liu H, Wang M, Welles S, Márquez S, Frank A, Haas CN for Drexel (US) – SARI (China) Co-Research and Education on Low Carbon and Healthy City Technology Study Group.

Spatial–Temporal Analysis of Air Pollution, Climate Change, and Total Mortality in 120 Cities of China, 2012–2013. *Front Public Health* 2016; 4:143. doi: 10.3389/fpubh.2016.00143

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Welles SL, Patel F, Chilton, M. Does employment-related resilience affect the relationship between childhood adversity, community violence and depression? Submitted: *J Urban Health* 2017 Jan 20. doi: 10.1007/s11524-016-0117-y. [Epub ahead of print]

*Goldstein ND, Newbern EC, Tabb LP, Welles SL. Density of Day Cares in Relation to Reported Pertussis Incidence in Philadelphia. In Press: *Public Health*.

*Goldstein ND, Burstyn I, Welles SL. Bayesian Approaches to Racial Disparities in HIV Risk Estimation Among Men Who Have Sex with Men. *Epidemiology* 2017, 28:215-220.

Bashir A, Bird B, Wu L, Welles S, Taylor H, Anday E, Bhandari V. Neonatal outcomes based on mode and intensity of delivery room resuscitation. *J Perinatol* 2017; 37: 1103-1107

*Emuren L, Welles S, Evans AA, Polansky M, Okulicz JF, Macalino G, Agan BK, and the Infectious Disease Clinical Research Program HIV Working Group. Health-1 Related Quality of Life among Military HIV Patients on Antiretroviral Therapy. *PLoS One* 2017 Jun 7;12(6):e0178953. doi: 10.1371/journal.pone.0178953. eCollection 2017.

Sun J, Robinson L, Lee NL, Welles S, Evans AA. No contribution of lifestyle and environmental exposures to gender discrepancy of liver disease severity in chronic hepatitis b infection: Observations from the Haimen City cohort. *PLoS One*. 2017 Apr 28;12(4):e0175482. doi: 10.1371/journal.pone.0175482. eCollection 2017.

Levine EC, Martinez O, Mattera B, Wu E, Arreola S, Rutledge SE, Newman B, Icard L, Muñoz-Laboy M, Hausmann-Stabile C, Welles S, Rhodes SD, Dodge BM, Alfonso S, Fernandez MI, Carballo-Diéguez A. Child Sexual Abuse and Adult Mental Health, Sexual Risk Behaviors, and Drinking Patterns Among Latino Men Who Have Sex With Men. *J Child Sex Abuse* 2017; 18:1-17.

LeVasseur MT, Goldstein ND, Olivieri-Mui B, Welles SL. The Effect of PrEP on HIV Incidence Among Men Who Have Sex With Men in the Context of Condom Use, Treatment as Prevention, and Seroadaptive Practices. *JAIDS* 2018; 77:31-40.

Roth AM, Aumaier BL, Welles SL, Gross R, Szep Z, Martinez-Donate AP, Chavis M, Van Der Pol B. An Exploration of Factors Impacting Preexposure Prophylaxis Eligibility and Access Among Syringe Exchange Users. *Sex Trans Dis* 2018; 45:217-221

*Wu L, Sell R, Roth A, Welles SL. Association of Sexual Minority Identity with Cardiovascular Disease is Mediated by Mental Health Disorders. *Prev Med* 2018 Mar;108:123-128

*Emuren L, Welles S, Polansky M, Evans AA, Macalino G, Agan BK; Infectious Disease Clinical Research Program HIV Working Group. Lower health-related quality of life predicts all-cause

hospitalization among HIV-infected individuals. *Health and Quality of Life Outcomes* 2018; 16:107-118

*Tran NK, Goldstein ND, Welles SL. Bias Adjustment Techniques Are Underutilized in HIV Sexual Risk Estimation: A Systematic Review. *Int J Env Res Publ Health* 2018; 15(8)

Submitted, or In Preparation

*Emerson HM, Drinkard LN, Halbritter A, Nguyun GT, Welles SL. The Mental Health of Non-Heterosexual Students at a Top-Tier Research University: Awareness and Utilization of Campus Counseling Services. To be submitted.

*Tran NK, Goldstein ND, Welles SL. Prevention of Syphilis Infection by Daily Doxycycline Treatment among MSM Receiving PrEP. In preparation: *The Lancet*.

*Student publication, Dr. Welles as advisor.

Letters

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Published Abstracts

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Welles SL, Toole, BP. Fibroblast extracellular matrix modulates myoblast differentiation *in vitro*. *J Cell Biol* 105 (4, pt 2): 139a, 1987.

Welles SL, Toole BP. Fibroblast matrix stimulation of myoblast differentiation: role of laminin. *J Cell Biol* 107 (6, pt 3): 793a, 1988.

Dosik H, Welles SL, Joseph EM, Goberdahn LJ, Lee S, Miotti A, Cervantes J, Bertoni M, RothenbergS, Levine PH. Clinical features of adult T-cell leukemia/lymphoma in Brooklyn. *AIDS Research and Human Retroviruses* 10:477, 1994.

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Welles SL, Pitt J, Colgrove R, Japour AJ, for the Women and Infants Transmission Study. The role of maternal HIV zidovudine drug-resistance and total lymphocyte count in mother-infant HIV transmission. *Am J Epidemiol* 1998; 147 (Abstract 132, S33).

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Meeting Abstracts

Welles SL, Shepro D, Alexander JS, Hechtman HB. Vasoactive amine modulation of surface area and actin cable number in bovine aortic endothelial cells and retinal pericytes. Meeting abstract: *Third International Symposium on the Biology of the Vascular Endothelial Cell*, p.134, 1984.

Welles SL, Tachibana N, Okayama A, Ishizaki J, Mueller N. White blood cell count and HTLV-I seropositivity predict percent abnormal lymphocytes. Meeting abstract: *Third Annual Retrovirology Conference*, Hawaii, February 1990.

Welles SL, Tachibana N, Okayama A, Ishizaki J, Mueller N. Hematologic correlates of HTLV-I disease progression. Meeting abstract: *Fourth Annual Retrovirology Conference*, Jamaica, February 1991.

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Welles S, Raj A, Santana MC, Horsburgh CR. What is sex, what is not sex, and sexual orientation among Boston black or African-American (B/AA) men in healthcare clinic settings. APHA 134th Annual Meeting and Exposition, Boston, MA, November 4-8, 2006.

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Allensworth-Davies D, Banik S, Welles S, Fisher L, and Ross MW. Challenges of internet survey research among men who have sex with men. APHA 135th Annual Meeting and Exposition, Washington, DC, November 3-7, 2007.

Costa MV, Welles S, Raj A, Reed EA, Horsburgh CR. Association of MSM/ Non-MSM Disclosure and Internalized Homonegativity among Black/African-American Men Enrolled at Boston Healthcare Clinics. APHA 135th Annual Meeting and Exposition, Washington, DC, November 3-7, 2007.

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Gagnon J, Welles S, Japour AJ. Factors affecting HIV therapy adherence amongst marginalized urban men who have sex with men (MSM). Accepted: APHA 135th Annual Meeting and Exposition, Washington, DC, November 3-7, 2007.

Welles SL, Rich JA, Reed E, Santana MC, Raj A. Early Life Physical and Sexual Abuse, and Associations with Adult Intimate Partner Violence among African-American Men who have Sex with Men. Society for the Scientific Study of Sexuality. Mid-Continent and Eastern Regions Conference. Cleveland, OH, May 15-17, 2008.

Welles S, Rich JA, Reed E, Santana MC, Raj A. Involvement with street violence, incarceration, and sex while incarcerated among African-American men who have sex with men (MSM) and non-MSM enrolled at urban health clinics. APHA 136th Annual Meeting and Exposition, San Diego, CA, October 25-29, 2008.

Welles S, Reed E, Rich J, Corbin T, Raj A. The use of audio computer-assisted self-interviewing to collect sensitive HIV risk data in stigmatized populations. III Annual Eastern Europe and Central Asia AIDS Conference, Moscow, RF, October 28-20, 2009.

Welles S, Lichtenberger P, Fertil J, Medina R, Cousino G, Romero J, Ullah E, Japour A. Factors associated with antiretroviral therapy adherence (ART-Ad) among HIV+ women in the Miami-Dade County Health Department AIDS Drugs Assistance Program (MDC-ADAP). APHA 138th Annual Meeting and Exposition, Philadelphia, PA, Nov 7-11, 2009.

Sell RL, Bowleg L, Welles S, Villaneuva A, Faigle T, Gold M. LGBT Training at Drexel School of Public Health. APHA 140th Annual Meeting and Exposition, San Francisco, CA Oct 27-31, 2012.

Goldstein ND, Newbern EC, Tabb LP, Gutowski J, Welles SL. Validation and Bayesian Correction of Misclassification of Pertussis in Retrospective Studies. Society for Epidemiologic Research Annual Meeting, Denver, CO, 2015.

Aumeir B, Szep Z, Martinez-Donate AP, Van Der Pol B, Welles SL, Chavis M, Roth AM. Acceptability of pre-exposure prophylaxis (PrEP) among persons who inject drugs. Poster Presentation at: The Philadelphia HIV Research Collaboration Conference, Philadelphia, PA, January 2016.

Aumeir B, Szep Z, Martinez-Donate AP, Van Der Pol B, Welles SL, Chavis M, Roth AM. Acceptability of pre-exposure prophylaxis (PrEP) among persons who inject drugs. Poster Presentation at: College of Physicians of Philadelphia 2016 Student Public Health Poster Session conference, Philadelphia, PA., May 2016.

Aumaier BL, Szep Z, Martinez-Donate AP, Welles SL, Van Der Pol, B, Chavis M, Roth AM. Towards Developing a Prep Continuum of Care for Persons Who Inject Drugs. Poster Presentation at: 145th American Public Health Association Conference, Denver, CO, November 2016.

Goldshear JL, Van Der Pol B, Welles SL, Martinez-Donate AP, Williams R, Roth AM. Prevalence and Correlates of Chlamydia and Gonorrhea among Persons Who Inject Drugs in Camden, New Jersey. Poster Presentation at: The Philadelphia HIV Research Collaboration Conference, Philadelphia, PA, January 2016.

Goldshear JL, Van Der Pol B, Welles SL, Martinez-Donate AP, Williams R, Roth AM. Prevalence and Correlates of Chlamydia and Gonorrhea among Persons Who Inject Drugs in Camden, New Jersey. Poster Presentation at: College of Physicians of Philadelphia 2016 Student Public Health Poster Session conference, Philadelphia, PA, May 2016.

Goldstein ND, Newbern EC, Tabb LP, Welles SL. Density of day cares in relation to reported pertussis incidence in Philadelphia, 2001 – 2013. Epidemiology Congress of the Americas, Miami, FL, 2016.

Roth AM, Goldshear JL*, Martinez-Donate AP, Welles SL, Chavis M, and Van Der Pol B. Pairing STI Control and Syringe Exchange Services Increases Case Finding among Persons Who Inject Drugs. Poster Presentation at: Sexually Transmitted Disease Conference, Atlanta, GA, September 2016.

Tran NK, Goldstein ND, Welles SL. Bias adjustment techniques are underutilized in HIV sexual risk estimation, Society for Epidemiologic Research Annual Meeting, Baltimore, MD, 2018.

INVITED TALKS/PRESENTATIONS

Title: Issues of Internal and External Validity in Retrospective Studies of Virus Load and Clinical Outcome. Meeting: Surrogate Markers of HIV/Strategies and Issues for Selection and Use, Arlington, VA, October 12-14, 1994.

Title: Prognostic Value of HIV-1 RNA Copy Number in Patients from ACTG Protocol 116B/117. Meeting: Surrogate Markers Workshop, Inter-Company Collaboration for AIDS Drug Development, Washington, D.C., September 21, 1994.

Title: Epidemiology of Adult T-Cell Leukemia/Lymphoma, and Community-Based Approaches to Studying HTLV-I Infection and Associated Morbidity. Inter-hospital Infectious Disease Group, Veterans Affairs Medical Center, Minneapolis, MN, March 13, 1996.

Title: Assessing the Quality of Published Research. Meeting: Department of Immunology, Hennepin County Medical Center, June 26, 1996.

Title: Design Considerations and Biomarkers for Epidemiologic Studies of Men Who Have Sex With Men (Invited Paper). Meeting: The American Statistical Association, Chicago, IL, August 6, 1996.

Title: Violence and Infection. The Seventeenth Annual Winter Lecture Series, Student Committee on Bioethics, University of Minnesota, March 13, 1997.

Title: There are important subgroup differences in the relationship between surrogate marker levels and disease risk. Meeting: Statistical issues for HIV Surrogate Endpoints (special NIAID-sponsored workshop), The International Biometric Society: Eastern North American Region, Memphis, TN, March 25, 1997.

- Title: Molecular ZDV-Resistance and the Risk of Perinatal HIV-1 Transmission in the Women and Infants Transmission Study, 35th Annual Meeting of the Infectious Diseases Society of America, San Francisco, Sept 13-16, 1997.
- Title: The Role of Maternal HIV Zidovudine Drug-Resistance and Total Lymphocyte Count in Mother-Infant HIV Transmission. Society for Epidemiologic Research, Chicago, June 24-26, 1998.
- Title: Public Health Today. Invited as part of a panel of public health scientists who appeared on a local Twin Cities television show “Health Talk & You”, April 6, 1999.
- Title: Antiretroviral Drug Resistance and HIV-1 Vertical Transmission. Invited presentation by NIH for the Women and Infants Transmission Study Executive Committee, Chevy Chase, MD, July 8, 1999.
- Title: Sexually Transmitted Disease in Early Adolescence: Challenges for Parents. Invited presentation for the Minnesota Organization for Adolescent Pregnancy Prevention and Parenting (MOAPP). Four Points Hotel, Minneapolis, MN, November 18, 1999.
- Title: Developing Sensitivity and Rapport with the Sexual Minority Community. Invited presentation for the Maternal & Child Health Conference, “Strategies for Understanding and Measuring Health Disparities.” Midway Sheraton Hotel, St. Paul, MN, June 8-9, 2000.
- Title: And what about sex?: Ethical dilemmas and issues in the design of screening and counseling programs for STDs and HIV among adolescents. Invited speaker for the Hennepin County School Mentor Program, Maplewood, MN, April 11, 2001.
- Title: LGBT Health and Sexual Identity. Presented for Boston University pre-orientation program for incoming freshman. August 29, 2006.
- Title: HIV/AIDS Pandemic: Update. Presented for Boston University pre-orientation program for incoming freshman. August 29, 2006.
- Title: What is Sex, What is Not Sex, and What is Sexual Orientation among Black/African-American Men Attending Urban Health Clinics? Presented to: the Slone Epidemiology Center, Boston University, December 14, 2006.
- Title: How to Survive a Plague (Moderator/Discussant), Drexel University Women’s and Gender Studies, October 28, 2015
- Title: And the Band Played On (Moderator/Discussant), Public Health Week, Dornsife SPH Doctoral Student Group. April 7, 2017

SPONSORED RESEARCH

Previous Support

1. Title: Brooklyn HTLV-1 Study.
Funding: American Cancer Society (Grant #EDT-94); 1/1/95-12/31/96.
Summary: Estimating seroprevalence in hospital clinic populations: general medical clinic patients, new mothers, chronic dialysis patients, and women at high risk for HIV-1 infection.
Role: Principal Investigator.
2. Title: ZDV Resistance in Maternal-Infant HIV-1 Transmission.
Funding: NIAID/NIH, RO1 AI39144-01; 9/95-9/98
Summary: This study describes the emergence of HIV-1 molecular ZDV drug resistance among mothers on ZDV therapy as part of the Women and Infant HIV-1 Transmission Study (WITS), and assesses the role of drug-resistance in transmission of HIV-1 to infants born to these mothers.
Role: Co-Principal Investigator.
3. Title: Minnesota Department of Health STD Prevalence Study (R. Johnson, MDH, P.I.)
Funding: State of Minnesota General Fund, 7/1/98-6/30/99.
Summary: This was a cross-sectional survey to measure the prevalence of chlamydia, gonorrhea, human papillomavirus and herpes simplex virus-2 among adolescents attending general medicine and family planning clinics in the Twin Cities metro area and outstate.
Role: Co-Investigator.
4. Title: Natural History of Entamoebiasis (J. Ravdin, Dept. of Medicine, P.I.)
Funding: NIAID/NIH (UO1AI35840-06), 7/1/99-6/30/00, including one year no-cost extension.
Summary: This is the last year of a five-year, case-control study of demographic and environmental determinants of infection with Entamoeba and endstage disease, and evaluating the immunologic response to infection by E. histolytica.
Role: Epidemiologist for study, and Co-Investigator.
5. Title: Molecular Data Center for Infectious Disease Studies.
Funding: Academic Health Center (AHC), University of Minnesota; fall 1998.
Summary: This was part of a large proposal to the AHC to fund a molecular sequencing facility and an analysis center at the College of Veterinary Medicine and the Division of Epidemiology, SPH. Our role in this project was to serve as the data importation and analysis center for collaborative studies between our division and the College of Veterinary Medicine.
Role: Co-Investigator.
6. Title: Epidemiology and Molecular Virology of Oral HIV Transmission (T.Schacker, P.I.)
Funding: NIDR/NIH, RO1 DE12934-01; 9/1/98-8/31/02.

Summary: This three-part study will evaluate several aspects of genital-oral transmission of HIV: the role of mucosal integrity and concomitant STD infection, and viral load in HIV transmission among serodiscordant couples; early replication events *in vivo* among persons who have had a high-risk exposure and initial infection of mucosal tissue; cell entry events using an *ex vivo* model of oropharyngeal tissues and primary isolates of HIV-1.

Role: Epidemiologist for study, and Co-Investigator.

7. Title: A Population-Based Survey of Torture and Violence (J. Jaranson, P.I.)
Funding: NIMH/NIH, RO1 MH59579-01; 9/30/98-5/31/03.
Summary: This is a five-year, community-based survey and case-control study of Somali and Ethiopian refugees in the Twin Cities metropolitan area with histories of government-sanctioned torture.
Role: Epidemiologist for study, and Co-Investigator.
8. Title: Immunologic Factors in Saliva and Blood as Determinants of HIV-Related Disease (N. Wetherall, ViroMed Laboratories, P.I.)
Funding: NIDR/NIH (RFP: NIH-NIDR-4-97-9R), Division of Epidemiology subcontract: 10/1/98-9/30/00.
Summary: This is a retrospective cohort analysis of salivary markers of HIV infection as determinants of oral HIV disease and overall disease progression. Over 2000 saliva and 2000 plasma samples collected from the U.S. Department of Defense Walter Reed Cohort will be screened and linked to the detailed clinical and laboratory database that already exists for this cohort.
Role: Co-Investigator and epidemiologist for study.
9. Title: STD Prevalence Study Enhanced Project (R. Johnson, MDH, P.I.)
Funding: CDC Grant #H25CCH504342 Catalog #93.977; 1/1/99-12/31/02.
Summary: This is an enhancement to the Minnesota Department of Health STD Prevalence Study. These additional funds will be used to study rates of STDs and determinants of infection in marginalized high-risk populations: gay and lesbian adults and adolescents, incarcerated adolescents, and homeless adolescents.
Role: Co-Investigator.
10. Title: Adjustment of Internationally Adopted Children (M. Gunnar, Institute of Child Development, P.I.)
Funding: NIMH/NIH (RO1MH59848-01), 6/1/99-5/31/03.
Summary: This is a four-year study of the effects of adoptive family emotional support, coping strategies, and social support as determinants of positive adjustment and cognitive development among adopted children in Minnesota—some of whom were adopted from abusive situations internationally.
Role: Epidemiologist for study, and Co-Investigator.
11. Title: A Community-based Evaluation of DARE and DARE Plus (C. Perry, P.I.)
Funding: NIDA/NIH (R01DA11994-02), 9/1/99-8/31/00.
Summary: This study is designed to implement and evaluate an augmented program (DARE Plus), as an alternative to the Drug Abuse Resistance Education (DARE) Program available nationally. The design for this project involves randomization of 24 Minnesota schools.

Role: Co-Investigator.

12. Title: Antiretroviral Resistance in HIV-1 Vertical Transmission
 Funding: NIAID/NICHD/NIH (2RO1AI39144-04A1), 9/1/99-8/31/03.
 Summary: This is a competitive renewal of our previously funded study to describe the prevalence and determinants of maternal HIV-1 genotypic ZDV drug-resistance data.
 Role: Principal Investigator.
13. Title: Mucosal and Vaccine Research Center (MAVRC).
 Funding: U of M Planning Initiatives in Interdisciplinary Research, Scholarly and Creative Activities (IRSCA); for 7/1/2001 to 6/30/2003
 Summary: This center grant will be to develop the scientific and administrative infrastructures for a center focused on mucosal immunity and vaccine-preventable diseases. Dr. Welles was to serve as the head of the epidemiology group in this new center.
 Role: Co-Investigator and Epidemiologist.
14. Title: Office of Minority Health Coalition Demonstration Grant Program – “Faith in You”
 Funding: OMH 10/1/02-9/30/05
 Summary: This project will be to develop faith-based interventions to offer compassionate referral of parishioners and community members who may be infected with HIV. The overall goal is to increase levels of community testing, and to get persons with HIV into early treatment for infection.
 Role: Co- Investigator and Scientific Director.
15. Title: HIV Risk In Non-Gay-Identifying MSM Seeking Net Sex
 Funding: ASPH/CDC, 10/01/03-9/30/06
 Summary: Epidemiologic study to measure types and rates of sexual behaviors among non-gay identifying men who have sex with men who seek sex partners on the internet. Additionally, we will measure several putative determinants of non-disclosure and high risk including racism, homophobia, and reduced self-efficacy.
 Role: Principal Investigator
16. Title: Psychosexual Risk for HIV in African-American MSM—the Minority AIDS Research Initiative (MARI): PI: Anita Raj, PhD
 Funding: CDC, 10/01/03-9/30/07
 Summary: Epidemiologic study to measure types and rates of sexual behaviors among African- American men seeking primary healthcare at several Boston Medical Center-affiliated walk-in clinics. In those men reporting same-sex behaviors, we will measure several putative determinants of non-disclosure and high risk including racism, homophobia, and reduced self-efficacy.
 Role: Co-Principal Investigator
17. Title: India Men’s Sexual Health Internet Study
 Funding: Cleveland State University and the University of Texas SPH, 12/06-6/07
 Summary: Epidemiologic study to measure types and rates of sexual behaviors among non-gay identifying men who have sex with men who seek sex partners on the Internet

throughout India. Additionally, we will measure several putative determinants of non-disclosure and high risk including racism, homophobia, and reduced self-efficacy.

Role: Co-Investigator

18. Title: Seminal HIV-1 Shedding and Drug Resistance in HIV-1/HSV-2 Coinfected Men on HAART
 Funding: NIH/NIAID
 Summary: Epidemiologic study to evaluate the impact of HSV-2 on HIV shedding in the male genital tract, and to assess the evolution of ARV drug-resistant HIV in both plasma and semen among men receiving HAART.
 Role: Co-Investigator and epidemiologist for study
19. Title: Relational HIV/AIDS Epidemiologic Database and Specimen Repository for Partnership Comprehensive Care Practice Patients
 Funding: Drexel University – Grants for Research Impact at Drexel, 2/2008-12/2010
 Summary: Development of a relational database, including molecular and behavioral epidemiologic data collected prospectively, as well as establishment of a specimen bank for HIV+ patients receiving care at the Drexel HIV Partners Clinic.
 Role: Principal Investigator
20. Title: Mu-Opioid Regulation of Mucosal Immunity against Clostridium Difficile Infection and Vaccination
 Funding: Department of Defense, 7/1/2009-6/30/12
 Summary: This project will use a mouse model to test the impact of impact of opioids on the development of immunity against Clostridium Difficile Infection and Vaccination.
 Role: Co-Investigator
21. Title: A Modulator of Innate Immunity for Preventing Hospital-Acquired Infections
 Funding: NIH-NIAID SBIR-AT, 4/1/2010-3/31/2012
 Summary: This project will evaluate the efficacy of new immune regulating drug substance in a mouse model of skin and soft tissue infections.
 Role: Co-Investigator
22. Title: Argos Vaccine Study
 Funding: NIAID and ARGOS Therapeutics, 10/1/09-6/30/2014
 Summary: This project is a randomized, double-blind, Phase IIB study to test the efficacy and safety of AGS-004, a dendritic cell-derived autologous HIV-1 viral RNA vaccine on host control of HIV replication during analytical treatment interruption.
 Role: Co-Investigator
23. Title: Long Acting HIV Therapy for Injection Drug Users (PRO 140 2102)
 Funding: NIH-NIDA, 4/1/2010-6/30/2016
 Summary: This project is a randomized, double-blind, placebo-controlled clinical trial of observed systemic, long-acting, anti-HIV treatment with a monoclonal CCR5 antibody (PRO 140) as an adjunct to a new, optimized, oral antiretroviral regimen in HIV-infected injection drug users with viral rebound and documented poor adherence to the previous antiretroviral regimen.
 Role: Co-Investigator

24. Title: Long-acting, self-administered HIV therapy with the CCR5 antibody PRO 140 (PRO 140 2103)
 Funding: NIH-NIDA, 4/1/2010-6/30/16
 Summary: This project is a randomized, double-blind, dosing and treatment strategy trial of observed systemic, long-acting, anti-HIV treatment with a monoclonal CCR5 antibody (PRO 140).
 Role: Co-Investigator
24. Title: HCV Cancer Vaccines
 Funding: PA Department of Health & Human Services Formula Funds, 06/01/2010 – (Jacobson: PI)
 Summary: This is a Phase II, randomized, double-blind, placebo-controlled study to examine the safety and immunogenicity of a novel HCV-DNA vaccine in hepatitis C virus-infected patients who have failed previous interferon- α -based therapy.
 Role: Co-Investigator
25. Title: Establishing Evidence for Peer Group Support and Asset Building Among Families with Young Children on TANF: Ensuring Fidelity & Producing Indicators
 Funding: Annie E. Casey Foundation, 9/1/13-8/31/16 (Chilton: PI)
 Summary: This demonstration project will provide asset-building activities and peer support to low-income mothers of young children under the age of 6 who are participating in the TANF program at two Philadelphia County Assistance Offices. The goal of the project is to improve maternal and child health by increasing participants' financial, human and social capital.
 Role: Co-Investigator
26. Title: Drexel-SARI Co-Research and Education on Low Carbon and Healthy City Technology
 Funding: Drexel's International Programs Office for the Drexel-SARI Center for Global Research & Education Joint Proposal 2013-2015
 Summary: The overall goal of the study is to examine the complexity of urban energy use and the environment, and their interactions with public health in urban Chinese population.
 Role: Co-Investigator
27. Title: Identification of risk factors for *Clostridium difficile* infection at Hahnemann University Hospital
 Funding: Pfizer, Inc., 12/1/13- 1/1/17 (Kutzler, PI)
 Summary: This is a case-control study at Hahnemann University Hospital to identify through questionnaire and medical chart review patient risk factors for acquisition of hospital-acquired *C. diff* infection and disease recurrence. We plan to correlate patient antitoxin A and B serum IgG titers and neutralizing antibodies with (A) symptomatic *C. diff* infection and (B) recurrence of disease when compared to *C. diff* negative and asymptomatic carriers (controls).
 Role: Co-Investigator

Current Support

28. Title: Louis and Bessie Stein Fellowship
 Funding: Drexel University, Office of International Programs, 2016—current.
 Summary: To provide financial assistance to deserving faculty members of Drexel to teach, study and do research in Israel. Funding has been used to develop a collaborative HIV sentinel surveillance program between Dr. Welles/Drexel and Ben Gurion University faculty—to evaluate HIV risk among transgender prostitutes residing in Tel Aviv, Israel.
- Role: Fellowship recipient and Director of Program

INSTRUCTIONAL ACTIVITIES/ TRAINING

UNIVERSITY OF MINNESOTA

Courses Taught

Title: PubH 5330: Epidemiology I; taught 1996 and 1998.

Description: This is the first course in the University of Minnesota School of Public Health epidemiology methods series. This course covers all basic concepts and analytic methods, as a introduction for students concentrating in epidemiology, biostatistics, environmental health, and health services research.

Title: PubH 8379: Epidemiology IV; taught 1998 and 1999 (offered as PubH 8350 during Fall 2000)

Description: This is the last course in the School of Public Health's epidemiologic methods series, and is intended for epidemiology doctoral students. The course presents the philosophical, statistical, and epidemiological bases of causal inference. Furthermore, the role and uniqueness of modern epidemiology as a independent discipline are debated.

Title: PubH 5337: Analysis of Infectious Disease Data; taught 1996, 1997 and 1998.

Description: This course is designed as an overview of epidemiologic and statistical methods commonly employed for the analysis of infectious diseases data. These include deterministic and stochastic modeling of new infections, back-calculation and forward projection methods for predicting epidemic growth for infections with long incubation periods (HIV as the example), the impact of social networks in the spread of infection of HIV and STDs, case-control and cohort analysis, survival methods to model pathogenesis, and the theory and limitations of surrogate markers.

Title: PubH 5379: Epidemiology Master's Project Seminar; taught Intercession 2000, 2001

Description: This seminar is focused on critiquing the design and methods for the Master's project that is required to earn an M.P.H. in epidemiology. Both lecture and group exercises are used to evaluate each Master's project in terms of the rationale and background of the proposed study, the

overall study design and methods, the analysis plan, and the public health impact of the proposed research.

Guest Lectures

1. **PubH 5330:** Epidemiology I; Instructor: K. Anderson. Title: *Causality*, 1998.
PubH 5320: Fundamentals of Epidemiology; Instructor: K. Anderson. Title: *Causality*, fall 1999, fall 2000.
2. **PubH 5383:** Pathobiology of Human Diseases; Instructors: R. Crow and M. Gross. Title: *Biology and Epidemiology of AIDS*, 1997, 1998, 1999 and 2000. Title: *Prognostic and Surrogate Markers for HIV-1 Disease*, 2001.
3. **PubH 5335:** Epidemiology and Control of Infectious Diseases; Instructor: A. Lifson. Title: *Screening for HPV Infection: Mandatory or Elective?* 1999.

Epidemiology and Control of Infectious Diseases; Instructor: M. Desvarieux
Title: *Human Retroviruses and Leukemia*, 2000, 2001.
4. **PubH 5320:** Fundamentals of Epidemiology; Instructor: D. Lazovich. Title: *Basic Concepts and Theory of Infectious Disease Epidemiology* 2000.
5. **PubH 5605:** Reproductive and Perinatal Health; Instructor: W. Hellerstedt. Title: *Vertical Transmission of HIV-1*, spring 2001.

Advising

| <u>Student</u> | <u>Degree</u> | <u>Major</u> | <u>Advisory Role</u> |
|-----------------------|----------------------|--------------------------------|-----------------------------|
| J. Adams | MPH | EOH | Masters Committee Member |
| S. Baker | MPH | Epidemiology | Project Advisor |
| G. Bauer | MPH | Epidemiology | Academic Advisor |
| P. Bowman | MPH | Epidemiology | Project Advisor |
| A. Box | MPH | Epidemiology | Project Advisor |
| A. Buikema | MPH | Epidemiology | Project Advisor |
| A. Claxton | PhD | Epidemiology | Doctoral Committee Member |
| D. Hiatt | MPH | Epidemiology | Academic Advisor |
| R. Kerani | PhD | Epidemiology | Doctoral Committee Member |
| K. Kelley | MPH | Epidemiology | Project Advisor |
| K. Kugler | MPH | Community Health and Education | Project Advisor |
| T. Miller | MPH | Epidemiology | Project Advisor |
| K. Nicodemus | MPH | Epidemiology | Academic Advisor |
| L. Nordgren | MPH | Epidemiology | Academic/Project Advisor |
| D. Osmon | MPH | Epidemiology | Academic Advisor |
| S. Simonton | MPH | Epidemiology | Project Advisor |
| G. Bauer | PhD | Epidemiology | Thesis Advisor |

BOSTON UNIVERSITY***Courses Taught*****Title: EB 755 : Infectious Disease Epidemiology, Spring 2002-2004**

Description: This course presents the methods of studying common infectious diseases in populations. It includes the determinants of these diseases, their distribution within populations, and their control. There are lecture presentations regarding specific diseases and agents. Implications for social policy and preventive approaches are discussed. Analysis of actual infectious disease outbreaks with classroom discussion of prepared homework is included.

Title: EP750: The Changing HIV Pandemic and the Response of Affected Communities, Summer 1 and Summer 2 2004- 2006

Description: This course is intended as a comprehensive epidemiologic overview of the evolving HIV pandemic over time, along with parallel responses by communities affected by AIDS and artists to express their sense of loss and strength through various media. These include written word, spoken word, and visual arts including painting, photography and film. Participants will follow the pandemic over time to observe the culture and expression of loss and resiliency by specific cultures within America and throughout the world. In addition, the HIV epidemic, as portrayed in literature and the arts, will be dovetailed with social epidemiologic considerations of the spread of infection and barriers to healthcare for the disease. This course is intended for individuals who have an introductory knowledge of epidemiology and public health, and who desire to build a deeper emotional and spiritual understanding of the impact of HIV within affected communities.

Title: EP871: Design and Conduct of Cohort Studies, Fall 2004, 2005-2006

Description: This is a third-level epidemiologic methods course intended for advanced Masters and Doctoral students who desire to build depth and nuance in their understanding of cohort study design and conduct. The course will build on students' foundation in basic cohort study design and measures of disease occurrence, with classic and state-of-the-art papers which focus in depth on various topics such as selection of appropriate measures of excess risk, intermediate endpoints (theory and practice), and pooled (meta) analysis. For each topic, methodologic readings are linked back to concrete examples of cohort study design, with special emphasis on practical aspects of study conduct.

Advising

| <u>Student</u> | <u>Degree</u> | <u>Major</u> | <u>Advisory Role</u> |
|-----------------------|----------------------|---------------------|-----------------------------|
| D. Allensworth-Davies | MSc | Epidemiology | Academic Advisor |
| C. Bezdek | MPH | Epidemiology | Academic Advisor |
| D. Christiansen | DSc | Epi and Biostat | Thesis Advisor |
| K. Clayton | MPH | Epidemiology | Academic Advisor |
| L. Grossman | MPH | Epidemiology | Academic Advisor |
| G. Hagley | MPH | Epidemiology | Academic Advisor |
| M. Holhouser | MPH | Epidemiology | Academic Advisor |

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|----------------|-----|----------------------|---|
| K. Johnson | MPH | Epidemiology | Academic Advisor |
| C. Kelly | MPH | Epidemiology | Academic Advisor |
| C. Lastimoso | MPH | Epidemiology | Academic Advisor |
| E. Maneri | MPH | Epidemiology | Academic Advisor |
| M. McLaughlin | MPH | Epidemiology | Academic Advisor |
| C. Mowl | MPH | Epidemiology | Academic Advisor |
| R. Rathanasami | MPH | Epidemiology | Academic Advisor |
| K. Raymond | MPH | Epidemiology | Academic Advisor |
| P. Razavi | MPH | Epidemiology | Academic Advisor |
| J. Richardson | MPH | Epidemiology | Academic Advisor |
| M. Sandoval | MPH | Epidemiology | Academic Advisor |
| J. Tran | MPH | Epidemiology | Academic Advisor |
| J. Wilkinson | MSc | Epidemiology | Thesis Committee Advisor |
| D. Brennan | PhD | Psych Social Work | Thesis Advisor (external) (Boston College) |

DREXEL UNIVERSITY

Courses Taught

PBHL 503: Making Sense of Epidemiologic Data, Winter 2013-2014, 2016

An introduction of exploratory data analysis and application of data to answering scientific questions. Covered: Data distributions and summaries including stem-and-leaf and box plot construction and interpretation, assumptions of normality for testing and data transformations, overview of regression and use of residual plots, basic epidemiologic measures of disease occurrence, and development of testable hypotheses.

PBHL 530ES: Introduction to Epidemiology, Sacramento Executive MPH Program, Fall 2010-2013

A first course covering basic epidemiologic methods, measures of disease occurrence, and selected topics. This course comprises both lectures and hands-on analytic exercises.

PBHL 530ES: Introduction to Epidemiology, Philadelphia Executive MPH Program, Fall 2017

See above for course description.

PBHL 630: Intermediate Epidemiology, Fall 2016, 2017

A second, intermediate level course in epidemiologic theory and methods, targeted to MPH, MS, PhD, and DrPH students. This course expands on basic methods used in epidemiologic thinking and research—with a focus on observational studies of disease risk factors. Topics covered include: basic principals of causal inference; observational study designs; bias; confounding; effect modification;

stratified analysis; and the epidemiologic approach to multivariable modeling. An emphasis is also placed on critically reading the epidemiologic literature.

PBHL 675: Health Disparities in the LGBT Community, Winter 2012

This course is intended as a first survey course that covers various health disparities in the LGBT community ranging from HIV/AIDS to intimate partner violence. The paradigm that we will adopt as the foundation for our weekly discussions will be one of unhealthy behaviors or outcomes related to stress and stigma that LGBT persons experience as a marginalized community. This paradigm will be discussed in the context of sexual minorities being but one class of minorities that suffer similar discrimination and resultant stress: We will draw parallels to earlier findings on disparities among racial/ethnic minorities.

PUBL 830: Advanced Epidemiology, Winter 2009-2018

This course covers more advanced methodologic issues in analytic epidemiology including: in-depth discussions of cohort, case-control, and case-cohort studies, missing data and methods of single/multiple imputation, theoretical basis of and analytic methods for using intermediate endpoints/surrogate markers, repeated measures analysis, and the use of DAGS,

PUBL 822: Causal Inference, Spring 2009, Fall 2010-2014

This advanced methods course has been designed to provide an in-depth theoretical foundation on epistemology and models of disease causation in epidemiology. To this end, students read and vigorously discussed several scientific papers weekly on a variety of topics, all which support our understanding of the scientific basis for identifying the causes of diseases and adverse conditions.

Guest Lectures/Individual Classes

Critical Literature Review: 2007-2012 CBMP Workshop

HIV-1 Epidemiology: Principles of Epidemiology, ENVS 431, Spring 2009-2011

HIV-1 Biology, Epidemiology and Trends over Time: Infectious Disease Epidemiology, PBHL 636, Spring 2010-2016

Molecular Epidemiology Principles and Methods (two sequential lectures): Epidemiology PhD Seminar II, PBHL 832, Spring 2010-2011

The Case for Multiple Regression/Reducing Bias When Estimating: Methods lecture for Department of Medicine Fellows and Residents, Mercy Hospital, Spring 2009, 2010

Intersectionality and Assessment of HIV Risk among Gay and Bisexual Men: Intersectional Perspectives, PBHL 676, Spring 2011-2012

Measuring Emotional Intimacy and Physical Pleasure during Anal Intercourse among MSM: Relationship with High Risk Condomless Intercourse, PBHL 825 Measuring health, Winter 2012-2016

Advising

Note: 2nd year MPH advising involves advising with the design of Community-Based Masters Projects (CBMPs), analysis of data, and written reports for CBMPs. First year MPH advisees (advised on course selections) are not included.

| <u>Student</u> | <u>Degree</u> | <u>Concentration</u> | <u>Date of Completion</u> |
|-----------------------|----------------------|-----------------------------------|----------------------------------|
| 2007-2008 | | | |
| M. Jung | MPH | Epidemiology—2 nd year | Spring 2008 |
| R. Ndiaye | MPH | Epidemiology—2 nd year | |
| K. Viner | MPH | Epidemiology—2 nd year | Spring 2008 |
| 2008-2009 | | | |
| D. Maragouthakis | MPH | Epidemiology—2 nd year | Spring 2009 |
| K. Modi | MPH | Epidemiology—2 nd year | Spring 2009 |
| A. Sim | PhD | Epidemiology—1 st year | |
| A. Wright | MPH | Epidemiology—2 nd year | Spring 2009 |
| M VanHandel | MPH | Epidemiology—2 nd year | Spring 2009 |
| 2009-2010 | | | |
| T. Magobet | MPH | Epidemiology—2 nd year | Spring 2010 |
| J. Miller | MPH | Epidemiology—2 nd year | Spring 2010 |
| K. Johnson | PhD | Epidemiology—1 st year | |
| A. Sim | PhD | Epidemiology—2 nd year | |
| A. Tong | MPH | Epidemiology—2 nd year | Spring 2010 |
| N. Vendetti | MPH | Epidemiology—2 nd year | Spring 2010 |
| 2010-2011 | | | |
| K. Johnson | PhD | Epidemiology—2 nd year | |
| O. Kusemiju | MPH | Epidemiology—2 nd year | Spring 2010 |
| R. Rasal | MPH | Epidemiology—2 nd year | Spring 2010 |
| A. Sim | PhD | Epidemiology—3 rd year | |
| T. Sweet, PhD | Post-Doc | | |
| R. Wahome | MPH | Epidemiology—2 nd year | Spring 2010 |
| 2011-2012 | | | |
| P. Alpay | MPH | Epidemiology—2 nd year | Spring 2012 |
| C. Chase | MPH | Epidemiology—1 st year | |
| L. Emuren | PhD | Epidemiology—1 st year | |
| D. Fields | MPH | Epidemiology—2 nd year | Spring 2012 |
| D. Figueras | PhD | Epidemiology—2 nd year | |
| A. Gray | MPH | Epidemiology—2 nd year | Spring 2012 |
| K. Johnson | PhD | Epidemiology—3 rd year | |
| A. Macias | MPH | Exec. MPH—2 nd year | Spring 2012 |
| A. Magusara | MPH | Exec. MPH—1 st year | |
| A. Sim | PhD | Epidemiology—4 th year | |
| T. Sweet, PhD | Post-Doc | | |

2012-2013

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|---------------|----------|-----------------------------------|-------------|
| L. Emuren | PhD | Epidemiology—2 nd year | |
| D. Figueras | PhD | Epidemiology—3 rd year | |
| N. Goldstein | PhD | Epidemiology—1 st year | |
| K. Johnson | PhD | Epidemiology—4 th year | Fall 2012 |
| M. LeVasseur | PhD | Epidemiology—1 st year | |
| A. Magusara | MPH | Exec. MPH—2 nd year | |
| A. Sim | PhD | Epidemiology—5 th year | Spring 2013 |
| T. Sweet, PhD | Post-Doc | | |
| M. Witcher | MPH | Epidemiology—2 nd year | Spring 2013 |

2013-2014

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|--------------|-----|--|-------------|
| A. Adams | MPH | Epidemiology—2 nd year | Spring 2014 |
| I. Bhatt | MS | Epidemiology—1 st year | |
| N. Chishom | MPH | Epidemiology—2 nd year | Spring 2014 |
| L. Emuren | PhD | Epidemiology—3 rd year | |
| D. Figueras | PhD | Epidemiology—4 nd year | |
| S. Gierhart | MS | Epidemiology—1 st year | |
| N. Goldstein | PhD | Epidemiology—2 st year | |
| M. LeVasseur | PhD | Epidemiology—2 st year | |
| R. Patrick | MPH | Epidemiology—2 nd year | Spring 2014 |
| A. Sim | PhD | Epidemiology—6 th year ¹ | Summer 2014 |
| C. Stone | MPH | Epidemiology—2 nd year | Spring 2014 |
| D. Vader | MS | Epidemiology—1 st year | Spring 2015 |
| C. Witt | MPH | Epidemiology—2 nd year | Spring 2014 |

2014-2015

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|--------------|-----|-----------------------------------|-------------|
| I. Bhatt | MS | Epidemiology—2 nd year | Spring 2015 |
| L. Emuren | PhD | Epidemiology—4 th year | Spring 2015 |
| N. Goldstein | PhD | Epidemiology—3 rd year | Summer 2015 |
| M. LeVasseur | PhD | Epidemiology—3 rd year | |
| L. Wu | PhD | Epidemiology—2 nd year | |
| R. Sharma | MPH | Epidemiology—2 nd year | Spring 2015 |
| A. Sim | PhD | Epidemiology—7 th year | Summer 2015 |
| N. Upadhyaya | MS | Epidemiology—1 st year | Spring 2016 |
| D. Vader | MS | Epidemiology—2 nd year | Spring 2014 |

2015-2016

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|---------------|----------|-----------------------------------|-------------|
| E. Addish | MPH | Epidemiology—2 nd year | Spring 2016 |
| H. Emerson | MPH | Epidemiology—2 nd year | Spring 2016 |
| F. Ernsberger | MPH | Epidemiology—2 nd year | Spring 2016 |
| S. Jones | Exec MPH | 2 nd year | Spring 2016 |
| M. LeVasseur | PhD | Epidemiology—4 th year | Summer 2016 |
| D. Terloyeva | PhD | Epidemiology—1 st year | |
| N. Upadhyaya | MS | Epidemiology—2 nd year | Spring 2016 |
| L. Wu | PhD | Epidemiology—3 rd year | |

2016-2017

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|-----------|-----|-----------------------------------|-------------|
| C. Bender | MPH | Epidemiology—2 nd year | Spring 2017 |
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|--------------|-----|-------------------------------------|-------------|
| J. Dietrich | MPH | Epidemiology---2 nd year | Spring 2017 |
| R. Joshi | MPH | Epidemiology---2 nd year | Spring 2017 |
| M. LeVasseur | PhD | Epidemiology---4 th year | Fall 2016 |
| D. Terloyeva | PhD | Epidemiology---2 nd year | |
| W. Wooten | MPH | Epidemiology---2 nd year | Spring 2017 |
| N. Tran | MPH | Epidemiology---1 st year | Spring 2018 |
| L. Wu | PhD | Epidemiology---4 th year | Spring 2017 |

2017-2018

| | | | |
|--------------|-----|-------------------------------------|-------------|
| M. Cook | MS | Epidemiology---2 nd year | Spring 2018 |
| V. Ekpe | MPH | Epidemiology---2 nd year | Spring 2018 |
| E. Lum | MPH | Epidemiology---2 nd year | Spring 2018 |
| P. Shah | MPH | Epidemiology---2 nd year | Spring 2017 |
| D. Terloyeva | PhD | Epidemiology---3 rd year | Fall 2018 |
| N. Tran | MPH | Epidemiology---2 nd year | Spring 2018 |
| A. Wagh | MPH | Epidemiology---2 nd year | Spring 2018 |
| A. Wang | PhD | Epidemiology---1 st year | |

ADMINISTRATIVE ACTIVITIES**UNIVERSITY OF MINNESOTA*****Division of Epidemiology***

Epi PhD Admissions Committee
 Epi MPH Admissions Committee
 Epi MPH MCH Admissions Committee
 Computer Services Committee
 Doctoral Preliminary Exam Committee
 Student Research Awards Committee
 Faculty Search Committees

School of Public Health

Faculty Consultative Committee
 Dean's Policy Council
 Strategic Planning Task Force (ad hoc member)

University-Wide

Member of the Graduate Faculty
 Member of University Senate
 Member of Academic Health Center's Strategic Planning Committee on Research

BOSTON UNIVERSITY

Department of Epidemiology

Epidemiology Doctoral Committee

School of Public Health

Masters Program Admissions Committee
Chair, MPH Admissions Standards Committee

DREXEL UNIVERSITY

Department of Epidemiology and Biostatistics

Epidemiology Doctoral Comprehensive Exam Committee (2008-2017)
Doctoral Admissions Committee (2008-2017)
Director of Doctoral Studies (including admissions committee and comprehensive exam committee work, 2011-2017)
Director of Graduate Studies (including PhD and MS admissions committee and PhD comprehensive exam committee work, 2017-2018)
Epidemiology Faculty Search Committee (for Amy Auchincloss)
Biostatistics Faculty Search Committee (for Loni Philip)
Biostatistics Faculty Search Committee (for Harrison Quick)
Biostatistics Faculty Search Committee (new biostat faculty hire), 2016-2017
Biostatistics Faculty Search Committee (new biostat faculty hire), 2017-2018

School of Public Health

Strategic Planning Advisory Committee (2009-2010)
CHP Chair Search Committee (2009-2010)
Dean's Executive Committee (2012-2013)
Educational Curriculum Committee (2012-2013)
Executive Committee of the Faculty (2012-2013)
ECF Subcommittee on Space (2013)
SPH Accreditation Steering Committee (2012-2013)
Chair, SPH Appointments, Promotion, and Tenure Committee (2015-2017)

University-Wide

Member, Budget, Development, and Planning Committee of University Senate (2009-2010, 2015-)
Member, Search Committee for the Founding Dean, Graduate School for Biomedical Sciences and Professional Studies (2013)
Senate Committee on Research and Scholarly Activity (2013-2014)
Provost's Appointments, Promotion, and Tenure Committee (2014-2015)

PROFESSIONAL SERVICE EXPERIENCE AND AFFILIATIONS

Editor-in-Chief Journal of Lesbian, Gay, Bisexual and Transgender Health Research,
Haworth Press, Fall 2006-2009

Reviewer: American Journal of Public Health
International Journal of Sexual Health
Journal of Acquired Immune Deficiency Syndromes and Human
Retrovirology
JAMA
Journal of Infectious Diseases
Journal of Laboratory and Clinical Medicine
The Lancet
The New England Journal of Medicine

Program Reviewer: 1996, 1997 ASPH/CDC/ATSDR Internship Programs.

**NIH Panels/
Study Sections** HIV Chemoprophylaxis Focus Group, NIH, November 1996.

Statistical Issues for HIV Surrogate Endpoints, Memphis, TN, March 1997.

Special Emphasis Panel (Study Section): Centers for AIDS Research
(CFARs), DAIDS/NIH, November 2001 and October 2003.

Special Emphasis Panel (Study Section): Women's Interagency HIV Study
(WIHS) DAIDS/NIH, 2002, 2012 (WIHS V)

Member, Site Visit: Review Group: Viral Epidemiology Branch (VEB),
NCI, 2003, 2007

Member, CDC NCHSTP External Peer Review Panel for LEGACY, August
2004

Member, Special Emphasis Panel (Study Section): Pediatric AIDS Clinical
Trials Network, DAIDS/NIH, 2005

Member, Special Emphasis Panel (Study Section): INTERACT
Epidemiologic Database to Evaluate AIDS (2011)

Member, Special Emphasis Panel (Study Section): Multicenter AIDS Cohort
Study (re-competition, both analytic center and clinical sites, 2014)

Member, Review Panel: Canadian Institutes of Health Research (CIHR),
Centres for HIV/AIDS Population Health and Health Services Research
(2014)

Member, Review Panel: Canadian Institutes of Health Research (CIHR),
Project Scheme, Spring 2016

Reviewer, MSM Research Grant Program Competition, Canadian Blood
Services, Spring 2017

**Professional
Societies:**

Society for Epidemiologic Research

American Public Health Association

Delta Omega, Pi Chapter, inducted 1999

Scientific Program Chair, Lesbian, Gay, Bisexual, and Transgender Caucus
of Public Health Workers, APHA, 2006-2008