

## Daniel J. Westreich

Department of Epidemiology  
 CB#7437 McGavran-Greenberg Hall  
 Gillings School of Global Public Health  
 UNC-Chapel Hill, Chapel Hill, NC 27599

Work 919.966.7437  
 Email djw@unc.edu  
 Twitter @EpidByDesign

**Professional positions**

2021- Professor, Department of Epidemiology, UNC-Chapel Hill  
 2016-2021 Associate Professor (tenured), Department of Epidemiology, UNC-Chapel Hill  
 2013-2015 Assistant Professor, Department of Epidemiology, UNC-Chapel Hill  
 2011-2013 Adjunct Assistant Professor, Department of Epidemiology, UNC-Chapel Hill  
 2010-2013 Assistant Professor, Department of Obstetrics and Gynecology, Duke University  
 Assistant Professor, Duke Global Health Institute, Duke University  
 2010 Research Assistant Professor, Department of Epidemiology, UNC-Chapel Hill

**Education and *experience***

2008-2010 Postdoctoral fellow, Epidemiology  
 Gillings School of Global Public Health, UNC-Chapel Hill  
 2005-2008 Ph.D. Epidemiology (Minor: Biostatistics)  
 Gillings School of Global Public Health, UNC-Chapel Hill  
 2003-2005 M.S.P.H. Epidemiology  
 Gillings School of Global Public Health, UNC-Chapel Hill  
 1998-2003 *Computer programmer at Microsoft and the University of Washington*  
 1994-1998 B.S. Computer Science  
 Yale University, New Haven, CT

**Honors**

2014-2019 New Innovator Award, National Institutes of Health  
 2014 Brian MacMahon Early Career Award, Society for Epidemiologic Research  
 2013 Society for Epidemiologic Research Poster Prize  
 2010 Barbara Sorenson Hulka Dissertation Award  
 Department of Epidemiology, UNC Gillings School of Global Public Health  
 2010 Young Investigators Award, 17<sup>th</sup> Conference Retroviruses and Opportunistic Infections  
 2009 Bernard G. Greenberg Award for Excellence in Doctoral Research  
 UNC Gillings School of Global Public Health  
 2009 Society for Epidemiologic Research Poster Prize (w/ S. Cole, R. Platt, E. Schisterman)  
 2009 Delta Omega, the Honorary Public Health Society, Theta chapter  
 2008 Young Investigators Award, 15<sup>th</sup> Conference Retroviruses and Opportunistic Infections  
 2007 Berton H. Kaplan Student Publication Award, UNC Department of Epidemiology  
 2006 Center for Women's Health Research Award for Excellence, UNC-Chapel Hill  
 2006 Transportation Grant, UNC-Chapel Hill Graduate School  
 2003-2004 Graduate Merit Assistantship, UNC-Chapel Hill Graduate School  
 2003 Trainee Support Grant, University of Washington Center for AIDS Research

**Book**

Daniel Westreich. *Epidemiology By Design: a Causal Approach to the Fundamentals*. New York: Oxford University Press (2019).

**Publications**

**h=39; i10=92** (Google Scholar)

*Refereed papers (including commentaries)*

(\*student/trainee; ‡equal effort)

1. Mollan KR, Pence BW, Xu S, Edwards JK, Mathew WC, O’Cleirigh C, Crane HM, Eaton EF, Collier AC, Weideman AMK, **Daniel Westreich**, Cole SR, Tierney C, Bengtson AM for the CFAR Network of Integrated Clinical Systems (CNICS) and AIDS Clinical Trials Group (ACTG). Initial HIV treatment with efavirenz and suicidal thoughts and behaviors: transporting results from randomized trials to routine care. In press at *American Journal of Epidemiology*.
2. Rudolph JE, Naimi AI, Edwards JK, Cole SR, **Daniel Westreich**. Simulation in practice: the balancing intercept. In press at *American Journal of Epidemiology*.
3. Kalmin MM\*, Daniel Westreich, Kirk GD, Mehta SH, Drummond MB. Incident Obstructive Lung Disease and Mortality among HIV-Positive and Negative Persons with a History of Injecting Drugs. In press at *AIDS*.
4. Mooney SJ, Keil A, **Daniel Westreich**. 13 Questions About Using Machine Learning in Causal Research (You Won’t Believe the Answer to Number 10!). In press at *American Journal of Epidemiology*.
5. Mehrotra M\*, **Daniel Westreich**, Glymour M, Geng E, Glidden DV. Transporting subgroup analyses of randomized trials for planning implementation of new interventions. In press at *American Journal of Epidemiology*.
6. Cole SR, Latouche A, **Daniel Westreich**. Reason, Truths, and Fermat’s Passage. In press at *Epidemiology*.
7. Stringer EM, Martinez E, Blette B, Ruiz CET, Boivin M, Zepe O, Stringer JSA, Morales M, Ortiz-Pujols S, Familiar I, Collins M, Chavarria M, Goldman B, Bowman N, de Silva A, **Daniel Westreich**, Hudgens MG, Becker-Dreps S, Bucardo F. Neurodevelopmental outcomes of children asymptomatic at birth following *in utero* exposure to Zika Virus in Nicaragua. *Clinical Infectious Diseases*. 2021 Jan 30.
8. Jenness SM, Le Guillou A, Chandra C, Mann LM, Sanchez T, Daniel Westreich, Marcus JL. Projected HIV and Bacterial STI Incidence Following COVID - Related Sexual Distancing and Clinical Service Interruption. *Journal of Infectious Diseases*. 2021 Jan 28.
9. Stoner MCD, Edwards JK, Daniel Westreich, Kilburn K, Ahern J, Lippman SA, Gomez-Olive FX, Kahn K, Pettifor A. Modeling cash plus other psychosocial and structural interventions to prevent HIV among adolescent girls and young women in South Africa (HPTN 068). *AIDS & Behavior*. 2021 Jan 21.
10. Stoner MCD, Edwards JK, **Daniel Westreich**, Kilburn K, Ahern J, Lippman SA, Gomez-Olive FX, Kahn K, Pettifor A. Modeling combination interventions to prevent HIV in adolescent girls and young women in South Africa (HPTN 068). *Clinical Infectious Diseases*. 2020 Dec 16.

11. Breskin A, Edmonds A, Cole SR, **Daniel Westreich**, Cocohoba J, Cohen MH, Kassaye SG, Metsch LR, Sharma A, Williams MS, Adimora AA. G-computation for policy-relevant effects of interventions on time-to-event outcomes. *International Journal of Epidemiology*. Int J Epidemiol. 2021 Jan 23;49(6):2021-2029.
12. Green CA, **Daniel Westreich**, Laughon MM, Stamilio DM, Strauss RA, Reese J, Shelton EL, Venkatesh KK. Association of chorioamnionitis and patent ductus arteriosus in a national U.S. cohort. *Journal of Perinatology*. J Perinatol. 2021 Jan;41(1):119-125.
13. Lu H, Cole SR, **Daniel Westreich**, et al. North American AIDS Cohort Collaboration on Research and Design of the International Epidemiologic Databases to Evaluate AIDS. Clinical effectiveness of integrase strand transfer inhibitor-based antiretroviral regimens among adults with human immunodeficiency virus: a collaboration of cohort studies in the United States and Canada. *Clinical Infectious Diseases*. 2020 Aug 11;ciaa1037. doi: 10.1093/cid/ciaa1037.
14. Rudolph JE, Naimi AI, **Daniel Westreich**, Kennedy DH, Schisterman EF. Defining, Identifying, and Estimating Per-Protocol Effects in Randomized Trials. *Epidemiology*. 2020 Sep;31(5):692-694.
15. Diepstra K\*, Lu H, McManus KA, Rogawski McQuade ET, Rhodes AG, **Daniel Westreich**. What we talk about when we talk about durable viral suppression. *AIDS*. 2020 Sep 1;34(11):1683-1686.
16. Breger TL, Edwards JK, Cole SR, **Daniel Westreich**, Pence BW, Adimora AA. Two-stage g-computation: evaluating treatment and intervention impacts in observational cohorts when exposure information is partly missing. *Epidemiology*. 2020 Sep;31(5):695-703.
17. Ross RK\*, Breskin A, **Daniel Westreich**. When is a complete-case approach to missing data valid? The importance of effect measure modification. *American Journal of Epidemiology*. 2020 Dec 1;189(12):1583-1589.
18. Pilcher CD‡, **Daniel Westreich**‡, Hudgens MG. Group testing for SARS-CoV-2 to enable rapid scale-up of testing and real-time surveillance of incidence. *Journal of Infectious Diseases*. J Infect Dis. 2020 Aug 17;222(6):903-909.
19. Webster-Clark M, Baron JA, Jonsson Funk M, **Daniel Westreich**. How Subgroup Analyses Can Miss the Trees for the Forest Plots: A Simulation Study. *Journal of Clinical Epidemiology*. 2020 Jun 19;126:65-70.
20. Pettifor A, Lippman SA, Kimaru L, Haber N, Mayakayaka Z, Selin A, Twine R, Gilmore H, **Daniel Westreich**, Mdaka B, Wagner R, Gomez-Olive X, Tollman S, Kahn K. HIV self-testing among young women in rural South Africa: a randomized controlled trial comparing clinic-based HIV testing to the choice of either clinic testing or HIV self-testing with secondary distribution to peers and partners. *EClinicalMedicine*. 2020 Apr 18;21:100327.
21. Venkatesh KK, Strauss RA, **Daniel Westreich**, Thorp JM, Stamilio DM, Grantz KL. Adverse maternal and neonatal outcomes among women with preeclampsia with severe features <34 weeks gestation with versus without comorbidity. *Pregnancy Hypertens*. 2020 Mar 10;20:75-82.
22. **Daniel Westreich**, Stephen J. Mooney. Number (of Whom?) Needed to Treat (with What?): Exposures, Population Interventions, and the Number Needed to Treat. *Epidemiology*. 2019 Nov;30 Suppl 2:S55-S59. (Open access)

23. Marcus JL, Snowden JM, Murray Horwitz ME, Toh S, Horgan C, Tilney RC, Rajbhandari R, Back S, **Daniel Westreich**. Use of Intrauterine Devices and Risk of HIV Acquisition among Insured Women in the U.S. *Clinical Infectious Diseases*. 2019 Aug 15. (Free PMC article.)
24. Kalmin M\*, Gower E, Stringer E, Bowman N, Rogawski E, **Daniel Westreich**. Misclassification in defining and diagnosing microcephaly. *Pediatric and Perinatal Epidemiology*. 2019 Jul;33(4):286-290. PMID PMC6662617.
25. Mehrotra ML\*, **Daniel Westreich**, McMahan VM, Glymour MM, Geng E, Grant RM, Glidden DV. Baseline Characteristics Explain Differences in Effectiveness of Randomization to Daily Oral TDF/FTC PrEP Between Transgender Women and Cisgender Men Who Have Sex With Men in the iPrEx Trial. *J Acquir Immune Defic Syndr*. 2019 Jul 1;81(3):e94-e98. PMID PMC6578589.
26. Breskin A\*, **Daniel Westreich**, Cole SR, Edwards JK. Using bounds to compare the strength of exchangeability assumptions for internal and external validity. *American Journal of Epidemiology*. 2019 Mar 5. PMID PMC6601532.
27. Cole SR, Hudgens MG, Edwards JK, Brookhart MA, Richardson DB, **Daniel Westreich**, Adimora AA. Nonparametric bounds for the risk function. *American Journal of Epidemiology*. 2019 Apr 1. PMID PMC6438811.
28. Breskin A\*, **Daniel Westreich**, Hurt CB, Cole SR, Hudgens MG, Seaberg EC, Thio CL, Tien PC, Adimora AA. The effects of hepatitis C treatment eligibility criteria on all-cause mortality among people living with HIV. *Clinical Infectious Diseases*. 2019 Jan 7. PMID 6792128
29. Overholt L, Wohl DA, Fischer W, **Daniel Westreich**, et al. Stigma and Ebola Survivorship in Liberia: Results from a Longitudinal Cohort Study. *PLoS ONE*. 2018 Nov 28;13(11):e0206595. PMID: PMC6261413.
30. Chawla D, Yang C, Desrosiers T, **Daniel Westreich**, Olshan A, Daniels J. Past-month cannabis use among men and women of reproductive age from 2002-2014: An age-period-cohort analysis. *Drug and Alcohol Dependency*. 2018 Dec 1;193:177-182. PMID: PMC6542262.
31. Lu H\*, Cole SR, Hall HI, Schisterman EF, Breger TL, Edwards J, **Daniel Westreich**. Generalizing the per-protocol treatment effect: the case of ACTG 5095. *Clinical Trials*. 2019 Feb;16(1):52-62. PMID PMC6693502.
32. Breskin A\*, **Daniel Westreich**, Cole SR, Hudgens MG, Hurt CB, Seaberg EC, Thio CL, Tien PC, Adimora AA. The Effects of Hepatitis C Infection and Treatment on All-cause Mortality Among People Living With Human Immunodeficiency Virus. *Clinical Infectious Diseases*. 2018 Oct 12. PMID PMC6424073.
33. **Daniel Westreich**, Edwards JK, Lesko CR, Cole SR, Stuart EA. Target validity and the hierarchy of study designs. *American Journal of Epidemiology*. 2018 Oct 9. PMID PMC6357801
34. Barry EL, Lund JL, **Daniel Westreich**...Baron J. Body Mass Index, Calcium Supplementation and Risk of Colorectal Adenomas. *International Journal of Cancer*. 2019 Feb 1;144(3):448-458. PMID: PMC6294679.

35. Stuart EA, Ackerman B, **Daniel Westreich**. Generalizability of randomized trial results to target populations: Design and analysis possibilities. *Research on Social Work Practice*. 2018 Jul;28(5):532-537. PMID: PMC6049838.
36. Keil AP, Richardson DB, **Daniel Westreich**, Steenland K. Estimating the impact of changes to occupational standards for silica exposure on lung cancer mortality. *Epidemiology*. 2018 Sep;29(5):658-665. PMID: PMC6066423.
37. Li X, Cole SR, **Daniel Westreich**, Brookhart MA. Primary non-adherence and the new-user design. *Pharmacoepidemiology and Drug Safety*. 2018 Apr; 27(4): 361-364. PMID: PMC6013420.
38. Young-Xu Y, Van Aalst R, Mahmud SM, Rothman KJ, Snider JT, **Daniel Westreich**, Mor V, Gravenstein S, Lee JK, Thommes EW, Decker MD, Chit A. Relative Vaccine Effectiveness of High-Dose versus Standard-Dose Influenza Vaccines among Veterans Health Administration Patients. *Journal of Infectious Diseases*. 2018 May 5;217(11):1718-1727.
39. Hoffman SR, Vines AI, Halladay JR, Pfaff E, **Daniel Westreich**, Schiff L, Sundaresan A, Johnson LS, Nicholson WK. Optimizing Research in Symptomatic Uterine Fibroids with Development of Computable Phenotype for Use with Electronic Health Records. *American Journal of Obstetrics and Gynecology*. 2018 Jun;218(6):610.e1-610.e7. PMID: PMC6116524.
40. Keil AP, Mooney SJ, Jonsson Funk M, Cole SR, Edwards JK, **Daniel Westreich**. Research Letter: Resolving an apparent paradox in doubly-robust estimators. *American Journal of Epidemiology*. 2018 Apr 1;187(4):891-892. PMID: PMC5889031
41. Breskin A, Cole SR, **Daniel Westreich**. Exploring the Subtleties of Inverse Probability Weighting and Marginal Structural Models. *Epidemiology*. 2018 May;29(3):352-355. PMID: PMC5882514
42. Cates JE\*, **Daniel Westreich**, Unger HW, et al. Intermittent Preventive Therapy in Pregnancy and Incidence of Low Birth Weight in Malaria-Endemic Countries. *American Journal of Public Health*. 2018 Mar;108(3):399-406. PMID: PMC5803815
43. Willis SJ, Cole SR, **Daniel Westreich**, et al. Chronic hepatitis C virus infection and subsequent HIV viral load among HIV-infected women initiating antiretroviral therapy. *AIDS*. 2018 Mar 13;32(5):653-661. PMID: PMC6024258.
44. Seamans MJ, Carey TS, **Daniel J. Westreich**, Cole SR, Wheeler SB, Alexander GC, Pate V, Brookhart MA. Prescription Opioid Initiation Among Members of Households with a Prescription Opioid User. *JAMA Internal Medicine*. 2018 Jan 1;178(1):102-109. PMID: PMC5833498
45. Cole SR, Edwards JK, **Daniel Westreich**, Lesko CR, Lau B, Mugavero MJ, Mathews WC, Eron JJ Jr, Greenland S; CNICS Investigators. Estimating multiple time-fixed treatment effects using a semi-Bayes semiparametric marginal structural Cox proportional hazards regression model. *Biometrical Journal*. 2018 Jan;60(1):100-114.
46. Link-Gelles R, **Daniel Westreich**, Aiello AE...Moore MR. Generalisability of vaccine effectiveness estimates: an analysis of cases included in a postlicensure evaluation of 13-valent pneumococcal conjugate vaccine in the USA. *BMJ Open*. 2017 Aug 28;7(8):e017715. PMID: PMC5724195.

47. Cates JE\*, Unger HW, Briand V, ... Meshnick S‡, Rogerson S‡, **Daniel Westreich**‡. Malaria, Malnutrition, and Birth Weight: A Pooled Analysis of 14,635 Pregnancies. *PLOS Medicine*. 2017 Aug 8;14(8):e1002373. PMID: PMC5549702
48. **Daniel Westreich**, Jessie K. Edwards, Catherine R. Lesko, Elizabeth Stuart, Stephen R. Cole. Transportability of trial results using inverse odds of sampling weights. *Am J Epidemiol*. 2017 Oct 15;186(8):1010-1014. PMID: PMC5860052
49. Lesko C, Buchanan A, **Daniel Westreich**, Edwards JK, Hudgens MG, Cole SR. Generalizing study results: a potential outcomes perspective. *Epidemiology*. 2017 Jul;28(4):553-561. PMID: PMC5466356
50. **Daniel Westreich**. From patients to policy: population intervention effects in epidemiology. *Epidemiology*. 2017 Jul;28(4):525-528. PMID: PMC5453818
51. Breskin A\*, Adimora A, **Daniel Westreich**. Women and HIV in the United States. *PLoS One*. 2017 Feb 16;12(2):e0172367. PMID: PMC5313170
52. Zadrozny S\*, **Daniel Westreich** et al. Effect of postnatal HIV treatment on clinical mastitis and breast inflammation in HIV-infected breastfeeding women. *Paediatr Perinat Epidemiol*. 2017 Mar;31(2):134-143. PMID: PMC6029881.
53. Unger H, Cates J, ... **Daniel Westreich**, van Eijk AM, Meshnick S, Rogerson S. Cohort Profile: The Maternal Malaria and Malnutrition (M3) Initiative, A Pooled Birth Cohort of Thirteen Pregnancy Studies in Africa and the Western Pacific. *BMJ Open*. 2016 Dec 21;6(12):e012697. PMID: PMC5223676
54. Bialas KM, **Daniel Westreich**, Cisneros E, Nelson C, Kauvar LM, Fu T-M, Permar SR. Maternal antibody responses and nonprimary congenital cytomegalovirus infection of HIV-1 exposed infants. *J Infect Dis*. 2016 Dec 15;214(12):1916-1923. PMID: PMC5142097
55. **Daniel Westreich**, Cates J, Cohen M, Weber KM, ... Golub ET, Adimora A. Smoking, HIV, and risk of pregnancy loss among US women. *AIDS*. 2017 Feb 20;31(4):553-560. PMID: PMC5263172
56. Ncayiyana JR, Bassett J, West N, **Daniel Westreich**, Musenge E, Emch M, Pettifor A, Hanrahan CF, Schwartz SR, Sanne I, Van Rie A. Prevalence of latent tuberculosis infection and predictive factors in an urban informal settlement in Johannesburg, South Africa: a cross-sectional study. *BMC Infectious Diseases*. 2016 Nov 8; 16(1):661. PMID: 27825307. PMID: PMC5101651.
57. Bengtson AM, Pence BW, Gaynes BN, Quinlivan EB, Heine AD, O'Donnell JK, Crane HM, Mathews WC, Moore RD, **Daniel Westreich**, O'Cleirigh C, Christopoulos K, Mimiaga MJ, Mugavero MJ. Improving depression among HIV-infected adults: transporting trial results to routine care. *JAIDS*. 2016 Dec 1; 73(4):482-488.
58. Polis CB, Curtis KM, Hannaford PC, Phillips SJ, Chipato T, Kiarie JN, **Daniel J. Westreich**, Steyn PS. Update on hormonal contraceptive methods and risk of HIV acquisition in women: a systematic review of epidemiological evidence, 2016. *AIDS*. 2016 Nov 13;30(17):2665-2683.
59. Link-Gelles R\*, **Daniel Westreich**, Aiello AE, Shang N, Weber DJ, Holtzman C, Scherzinger K, Reingold A, Schaffner W, Harrison LH, Rosen JB, Petit S, Farley M, Thomas A, Eason J, Wigen C, Barnes M, Thomas O, Zansky S, Beall B, Whitney CG, Moore MR. Bias with respect to

socioeconomic status: a closer look at zip code matching in a pneumococcal vaccine effectiveness study. *Social Science in Medicine - Population Health*. 2016 Dec; 2:587-594. PMID: 27668279  
PMCID: PMC5033249.

60. **Daniel Westreich**, Hudgens MG. Beware the test-negative design. *American Journal of Epidemiology*. 2016 Sep 1; 184(5):354-6. PMID: 27587722.
61. Edwards JK, Cole SR, Lesko CR, Mathews WC, Moore RD, Mugavero MJ, **Daniel Westreich**. An illustration of inverse probability weighting to estimate policy relevant causal effects. *American Journal of Epidemiology*. 2016 Aug 15; 184(4):336-44. PMID:27469514.
62. Rogawski E\*, **Daniel Westreich**, Kang D, Ward HD, Cole SR. Brief Report: Estimating differences and ratios in median times to event. *Epidemiology*. 2016 Nov; 27(6):848-51.
63. Yechoor N, Towe SL, Robertson KR, **Daniel Westreich**, Nakasujja N, Meade CS. Sensitivity and specificity of the CogState tool in Uganda. *Journal of NeuroVirology*. 2016 May 31.
64. **Daniel Westreich**, Edwards JK, Rogawski ET, Hudgens MG, Stuart EA, Cole SR. Causal impact: epidemiologic approaches for a public health of consequence. *American Journal of Public Health*. 2016 Jun; 106(6):1011-2. PMCID: PMC4880276
65. Bengtson AM\*, **Daniel Westreich**, et al. Multiple Overimputation to Address Missing Data and Measurement Error: Application to HIV Treatment During Pregnancy and Pregnancy Outcomes. *Epidemiology*. 2016 Sep; 27(5):642-50.
66. Bengtson AM, Chibwasha CJ, **Daniel Westreich**, Mubiana-Mbewe M, Chi BH, Miller WC, Mapani M, Pence BW, Musonda P, Stringer JSA, Pettifor A. A risk score to identify HIV-infected women most likely to become lost to follow-up in the postpartum period. *AIDS Care*. 2016 Aug; 28(8):1035-1045.
67. Lesko CR, Cole SR, Hall HI, **Daniel Westreich**, Miller WC, Eron JJ, Li J, Mugavero MJ; CNICS Investigators.. The effect of antiretroviral therapy on all-cause mortality, generalized to persons diagnosed with HIV in the United States, 2009-2011. *International Journal of Epidemiology*. 2016 Feb;45(1):140-50.
68. Bengtson AM, Chibwasha CJ, **Daniel Westreich**, et al. Duration of cART before delivery and low infant birthweight among HIV-infected women in Lusaka, Zambia. *JAIDS*. 2015 Nov 30.
69. Rogawski ET\*, Meshnick SR, Becker-Dreps S, Adair LS, Sandler RS, Sarkar R, Kattula D, Ward HD, Kang G, **Daniel J. Westreich**. Reduction in diarrheal rates through interventions that prevent unnecessary antibiotic use early in life in an observational birth cohort. *Journal of Epidemiology and Community Health*. 2015 Nov 30.
70. Cates JE\*, **Daniel Westreich**, Edmonds A, Wright RL, Minkoff H, Colie C, Greenblatt RM, Cejtin HE, Karim R, Haddad LB, Kempf MC, Golub ET, Adimora AA. The effects of viral load burden on pregnancy loss among HIV-infected women in the United States. *Infectious Diseases in Obstetrics & Gynecology*. 2015;2015:362357. Epub 2015 Oct 25.
71. **Daniel Westreich**, Edwards JK. Invited Commentary: Every good randomization deserves observation. *American Journal of Epidemiology*. 2015 Nov 15;182(10):857-60.

72. Rosenberg M, Pettifor A, Nguyen N, **Daniel Westreich**, Bor J, Bärnighausen T, Mee P, Twine R, Tollman S, Kahn K. Relationship between receipt of a social protection grant for a child and second pregnancy rates among South African women: A cohort study. *PLoS One*. 2015 Sep 23;10(9):e0137352.
73. Rogawski ET\*, **Daniel Westreich**, Adair LS, Becker-Dreps S, Sandler RS, Sarkar R, Kattula D, Ward HD, Meshnick S, Kang G. Early life antibiotic exposures do not promote short or long-term growth among young children in Vellore, India. *Journal of Pediatrics*. 2015 Sep 11. pii: S0022-3476(15)00871-9.
74. Edwards JK, Cole SR, **Daniel Westreich**, Crane H, Eron JJ, Matthews WC, Moore R, Boswell SL, Lesko CR, Mugavero MJ, CNICS. Multiple imputation to account for measurement error in marginal structural models. *Epidemiology*. 2015 Sep; 26(5):645-52.
75. **Daniel Westreich**, Edwards JK, Cole SR, Platt RW, Mumford SL, Schisterman EF. Imputation approaches for potential outcomes in causal inference. *International Journal of Epidemiology*. 2015 Jul 25. [Epub ahead of print]
76. Edwards JK, Cole SR, **Daniel Westreich**, Mugavero MJ, Eron JJ, Moore RD, Mathews WC, Hunt P, Williams C; CNICS investigators. Age at Entry Into Care, Timing of Antiretroviral Therapy Initiation, and 10-Year Mortality Among HIV-Seropositive Adults in the United States. *Clinical Infectious Diseases*. 2015 Jun 16. pii: civ463.
77. Rogawski E\*, **Daniel Westreich**, Becker-Dreps S, Adair L, Sander RS, Sarkar R, Kattula D, Ward H, Meshnick S, Kang G. Antibiotic treatment of diarrhea decreases time to the next diarrhea episode among young children in Vellore, India. *International Journal of Epidemiology*. 2015 Jun;44(3):978-87.
78. Edwards JK, Cole SR, **Daniel Westreich**. All your data are always missing. *International Journal of Epidemiology*. 2015 Apr 28. pii: dyu272. [Epub ahead of print].
79. Buck Louis GM, Bloom M, Gatto N, Hogue N, **Daniel J. Westreich**, Zhang C. Epidemiology's Continuing Contribution to Public Health: The Power of "Then and Now." *American Journal of Epidemiology*. 2015 Apr 15;181(8):e1-8.
80. Patel MR\*, **Daniel Westreich**, Yotebieng M, Nana M, Eron JJ, Behets F, Van Rie A. The impact of implementation fidelity on mortality under a CD4-stratified timing strategy for antiretroviral therapy in patients with tuberculosis. *American Journal of Epidemiology*. 2015 May 1;181(9):714-22.
81. Smith MK\*, **Daniel Westreich**, Liu H, Zhu L, Wang L, He W, Zhou J, Miller WC, Cohen MS, Wang N. Treatment to Prevent HIV Transmission in Serodiscordant Couples in Henan, China, 2006 to 2012. *Clinical Infectious Diseases*. 2015 Jul 1;61(1):111-9.
82. Lesko CR, Cole SR, Miller WC, **Daniel Westreich**, et al. on behalf of the CNICS network. Ten-year survival by race/ethnicity and sex among treated, HIV-infected adults. *Clinical Infectious Diseases*. 2015 Jun 1;60(11):1700-7.
83. Mooney SJ, **Daniel J. Westreich**, El-Sayed AM. Commentary: Epidemiology in the Big Data Era. *Epidemiology*. 2015 May;26(3):390-4.



84. Rogawski E\*, **Daniel Westreich**, Becker-Dreps S, Adair L, Sander RS, Sarkar R, Kattula D, Ward H, Meshnick S, Kang G. The effect of early life antibiotic exposures on diarrheal rates among young children in Vellore, India. *The Pediatric Infectious Disease Journal*. 2015 Jun;34(6):583-8.
85. Cole SR, Hudgens MG, Brookhart MA, **Daniel J. Westreich**. Risk. *American Journal of Epidemiology*. 2015 Feb 15; 181(4):246-50.
86. Ahrens KA, Cole SR, **Daniel Westreich**, Platt RW, Schisterman EF. A cautionary note about estimating effects of secondary exposures in cohort studies. *American Journal of Epidemiology*. 2015 Feb 1;181(3):198-203.
87. Henegar CE\*, **Daniel Westreich**, Maskew M, Miller WC, Brookhart MA, Van Rie A. The effect of pregnancy on adherence to antiretroviral drugs among HIV-infected women established on highly active antiretroviral therapy. *JAIDS*. 2015 Apr 1;68(4):477-80.
88. Henegar CE\*, **Daniel Westreich**, Van Rie A, Mhairi Maskew. Comparison of pharmacy-based measures of adherence to antiretroviral therapy as predictors of virological failure. *AIDS and Behavior*. 2015 Apr;19(4):612-8.
89. Van Rie A, **Daniel Westreich**, Sanne I. Impact of three empirical tuberculosis treatment strategies for people initiating antiretroviral therapy. *The International Journal of Tuberculosis and Lung Disease*. 2014 Nov;18(11):1340-6.
90. Mumford SL, Schisterman EF, Cole SR, **Daniel Westreich**, Platt RP. Time at Risk and Intention-to-treat Analyses: Parallels and Implications for Inference. *Epidemiology*. 2015 Jan;26(1):112-8.
91. Polis CB, Phillips SJ, Curtis KM, **Daniel J. Westreich**, Steyn P, Raymond E, Hannaford P, Norris Turner A. Hormonal contraceptive methods and risk of HIV acquisition in women: a systematic review of epidemiological evidence. *Contraception*. 2014 Oct;90(4):360-90.
92. Edwards JK, Cole SR, **Daniel Westreich**, Moore R, Mathews C, Geng E, Eron JJ, Mugavero MJ. Loss to clinic and five-year mortality among HIV-infected antiretroviral therapy initiators. *PLoS ONE*. 2014 Jul 10;9(7):e102305.
93. Meyer SA, **Daniel Westreich**, Patel E, Ehlinger EP, Kalilani L, Denny TN, Lovingood RV, Swamy G, Permar SR. The impact of maternal antiretroviral therapy on cytomegalovirus load in breast milk and infant growth at the cessation of breastfeeding. *Infectious Diseases in Obstetrics and Gynecology*. 2014;2014:989721. doi: 10.1155/2014/989721. Epub 2014 Mar 3.
94. **Daniel Westreich**, Iliinsky N. Epidemiology visualized: the Prosecutor's Fallacy. *American Journal of Epidemiology*. 2014 May 1;179(9):1125-7.
95. **Daniel Westreich**, Daniel R. Commentary: Berkson's fallacy and missing data. *International Journal of Epidemiology*. 2014 Feb 28.
96. **Daniel Westreich**. From exposures to population interventions: an example in pregnancy and response to HIV therapy. *American Journal of Epidemiology*. 2014 Feb 25.
97. **Daniel Westreich**, Jamal N, Smith J, Schulz D, Williams S, Michelow P, Levin S, Firnhaber C. Injectable and oral contraception and the incidence and progression of cervical disease in HIV-infected women in South Africa. *Contraception*. 2014 Jan 7.

98. **Daniel Westreich**<sup>‡</sup>, Balkus JE<sup>‡</sup>, Heffron R<sup>‡</sup>, Polis CB<sup>‡</sup>, et al. Assessing the effect of hormonal contraception on HIV acquisition in observational data: challenges and recommended analytic approaches. *AIDS*. 2013 Oct;27 Suppl 1:S35-43.
99. **Daniel Westreich**, Rosenberg M, Schwartz S, Swamy G. Representation of women and pregnant women in HIV research: a limited systematic review. *PLoS One*. 2013 Aug 23;8(8):e73398.
100. Rosenberg NE\*, **Daniel Westreich**, Bärnighausen T, Miller WC, Behets F, Maman S, Newell M.L., Pettifor A. Assessing the Effect of HIV Counseling and Testing on HIV Acquisition among South African Youth. *AIDS*. 2013 Jul 24 [Epub ahead of print].
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110. **Daniel Westreich**, Cole SR, Schisterman EF, Platt RW. Finite-sample properties of marginal structural Cox proportional hazards models. *Statistics in Medicine*, 2012 Aug 30; 31(19):2098-109.
111. **Daniel Westreich**, Cole SR, Young JG, Tien P, Pallela F, Anastos K, Jacobson L, Hernán MA. The parametric g-formula to estimate the effect of highly active antiretroviral therapy on incident AIDS or death. *Statistics in Medicine*, 2012 Aug 15;31(18):2000-9.

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141. **Daniel Westreich**, Eron J, Behets F, Van Der Horst C, Van Rie A. Nevirapine Resistance and Survival of Women Receiving HAART Subsequent to PMTCT: a Stochastic Model. *The Journal of Infectious Diseases*. 2007 Mar 15;195(6):837-46.

#### Law

1. Grimmelmann J, **Daniel Westreich**. Incomprehensible Discrimination. *California Law Review Online*. Vol. 7 (March 2017). Berkeley, CA.

#### Book chapters, editorials, letters, sundries

1. **Daniel Westreich**, van Smeden M, Edwards JK. COMMENT ON WILLIAMSON ET AL. (OpenSAFELY): the Table 2 fallacy in a study of COVID-19 mortality risk factors. In press at *Epidemiology*.
2. **Daniel Westreich**, Jenness S, Marcus J. Endorsing contact tracing. *Clinical Infectious Diseases*. 2020 Jun 3;ciaa717. doi: 10.1093/cid/ciaa717.
3. Keyes K, **Daniel Westreich**. Letter: UK Biobank, big data, and the consequences of non-representativeness. *Lancet*. 2019 Mar 30;393(10178):1297.
4. Savitz DA, **Daniel Westreich**. Editorial: Innovations in Study Design-A Call for Creative Solutions. *Am J Epidemiol*. 2017 Nov 1;186(9):1024-1025.
5. Lesko CR, Buchanan AL, **Daniel Westreich**, Edwards JK, Hudgens MG, Cole SR. The Authors Respond. *Epidemiology*. 2017 Oct 11.
6. **Daniel Westreich**, Hudgens MG. The authors reply. *Am J Epidemiol*. 2017 Apr 1;185(7):614-615.
7. Mack C, Su Z, **Daniel Westreich**. Managing Missing Patient Data in Patient Registries. White Paper, addendum to Registries for Evaluating Patient Outcomes: A User's Guide, Third Edition. (Prepared by L&M Policy Research, LLC, under Contract No. 290-2014-00004-C.) AHRQ Publication No. 17(18)-EHC015-EF. Rockville, MD: Agency for Healthcare Research and Quality; February 2018. [www.effectivehealthcare.ahrq.gov](http://www.effectivehealthcare.ahrq.gov). DOI: <https://doi.org/10.23970/AHRQREGISTRIESMISSDATA>.

8. **Daniel Westreich**. A lasting impact. (Editorial). *Am J Epidemiol.*, 2015 Jun 1; 181(11):829-31.
9. Naimi A, **Daniel Westreich**. Book Review: “Big Data: A Revolution that will Transform How we Live, Work, and Think. By Viktor Mayer-Schönberger and Kenneth Cukier.” *Am J Epidemiol*, 2014 Apr 8. (Book review)
10. **Daniel Westreich** (on behalf of the Journal and the Society for Epidemiologic Research). Editors’ Note: Figure of the Year. *Am J Epidemiol*, 2014.
11. Rogawski E, McGrath L, Vielot N, **Daniel Westreich**. Remarks on ‘Ischaemic heart disease, influenza and influenza vaccination: a prospective case control study’ by MacIntyre et al. *Heart*, 2014 Jan 17 online.
12. Platt RW, Brookhart MA, Cole SR, **Daniel Westreich**, Schisterman EF. Response to Taguri and Matsuyama. *Statistics in Medicine*, 2013 Sep 10; 32(20): 3592-3. PMID: 23943550.
13. **Daniel Westreich**, Fox M, Van Rie A, Maskew M, and Sanne I. Response to Lawn et al.: undiagnosed but not diagnosed-and-treated tuberculosis is a risk factor for mortality among people on antiretroviral therapy. *AIDS*, Aug 24;26(13):1728-9. PMID: 22874481.
14. Hanrahan CF\*, **Daniel Westreich**, Van Rie A. Comments on Gupta et al. *Clinical Infectious Diseases*. 2012 May; 54(9):1377-8. PMID: 22419682.
15. Naimi AI\*, Cole SR, **Daniel Westreich**, Richardson DB. Inverse Probability Weighting With Time-varying Confounding and Nonpositivity. *Epidemiology*. 2012 Jan;23(1):179.
16. **Daniel Westreich**, Pence BW, Norris Turner A. In populo. *Epidemiology*. 2010 Jan;21(1):152-3.
17. **Daniel Westreich**. A statistical investigation of urban skylines in Illinois. *CHANCE*. 22(3), September 2009.
18. Jonsson Funk ML, **Daniel Westreich**, Wiesen C, Davidian M. “Doubly robust estimation of causal effects.” in Analysis of Observational Health-Care Data using SAS. SAS Press, Cary, North Carolina.
19. **Daniel Westreich**, Kipp A. Pregnancy and HIV disease progression: methodological concerns. *The Journal of Infectious Diseases*, 2008 Apr 1;197(4).
20. Jonsson Funk ML, **Daniel Westreich**, Davidian M, Wiesen C. Introducing a SAS® macro for doubly robust estimation. Paper 189-2007, SAS Global Forum.
21. **Daniel Westreich**, Rennie S, Muula A. Comments on Brewer et al., Male and Female Circumcision Associated With Prevalent HIV Infection in Virgins and Adolescents in Kenya, Lesotho, and Tanzania. *Annals of Epidemiology*, 2007 Nov; 17(11):926-7.
22. **Daniel Westreich**, Pettifor A, Karita E, Price M, Fiamma A, Fiscus S, Cohen M. Overestimation of the South African HIV incidence using the BED IgG assay? *South African Medical Journal*, 2007 Jul;97(7):476, 478.
23. **Daniel Westreich**. Invocation for a methods class. *Epidemiology*. 15(3):367, May 2004.

**Teaching**      *Courses at UNC*

- 2013-      Fundamentals of Epidemiology, EPID 710  
Lead instructor (2014-); co-instructor (2013)  
~60 master's and doctoral students per year
- 2010      Theory and Quantitative Methods in Epidemiology, EPID 715  
Lab Instructor  
~60 master's and doctoral students
- 2005-2009      Tools for Diagnosis and Therapy Fundamentals, MEDI 230 &  
Clinical Epidemiology, MEDI 220 (2006, 2007 only)  
Instructor  
~15 students/year
- Ad hoc/guest      Readings in Epidemiologic Modeling; Reproductive and Perinatal Epidemiology;  
Advanced Topics in Perinatal and Pediatric Epidemiology; Mathematical Modeling of  
Infectious Diseases; Advanced Concepts in Infectious Disease Epidemiology; Advanced  
Epidemiologic Methods (EPID 722)

*Courses at Duke*

- 2011-2013      Global Health Research: Epidemiologic Methods II, GLHLTH 325  
Instructor  
~15 master's level students/year
- 2011-2013      Resident CME in Clinical Epidemiology, Dept. of Obstetrics and Gynecology  
~20 residents and fellows
- Ad hoc/guest      Health Psychology and Behavior Change; Secondary Use of Health Care Data; Global  
Health Research: Epidemiologic Methods I; Duke TIP Independent Learning Program  
(Epidemiology course development)

*Short Courses*

- Academic      Short course at UCSF on quantitative generalizability  
Consulting      Short course for Statistical Horizons on marginal structural models

*Other institutions*

- Ad hoc/guest      Social Epidemiology, University of Arizona, Department of Epidemiology  
Doctoral Seminar, University of California Berkeley, Department of Epidemiology  
Causal Inference, Drexel University, Department of Epidemiology

**Students Advised**

*Postdoctoral fellows*

N=2, NAMES REDACTED DUE TO FERPA, PLEASE INQUIRE

*Doctoral Thesis Committee Chair (completed)*

N=6, NAMES REDACTED DUE TO FERPA, PLEASE INQUIRE

*Doctoral Thesis Committee Membership*

N=14, NAMES REDACTED DUE TO FERPA, PLEASE INQUIRE

*Master's Thesis Committee Chair*

N=2, NAMES REDACTED DUE TO FERPA, PLEASE INQUIRE

*Master's Thesis Committee Membership (non-advisees)*

N=4, NAMES REDACTED DUE TO FERPA, PLEASE INQUIRE

*Research Advisees (non-degree)*

N=6, NAMES REDACTED DUE TO FERPA, PLEASE INQUIRE



**Grants and funding***Current*

**R01-HD-101352-01 (D. Westreich, MPI)** 09/27/19 - 08/31/24  
NIH/NICHD \$2,900,790 (total, current year)

*The Women's HIV Cohort Study*

The Women's HIV Cohort Study (WHCS) is a prospective, longitudinal, observational cohort study of approximately 2000 younger women living with HIV infection in the southeastern United States. The purpose of WHCS is to understand the current epidemiology of HIV infection, disease progression, treatment use and outcomes, and related co-morbidities among U.S. women, with particular focus on issues of pregnancy and reproductive health, and depression as a key comorbidity.

Role: UNC Principal Investigator (MPI, with Ada Adimora at UNC; contact PI: M. Alcaide, U. Miami)

**NC House Bill 1043\* (D. Westreich, MPI)** 07/01/20-12/30/20  
NC General Assembly \$597,000 (approximate)

*Gilling Center for Coronavirus Testing, Screening, and Surveillance*

This project is supported by North Carolina Policy Collaboratory with funding from the North Carolina Coronavirus Relief Fund established and appropriated by the North Carolina General Assembly. MPI with J. Edwards.

**U01-AI-103390 (A. Adimora, PI)** 04/01/19 - 03/31/26  
NIH/NIAID \$2,400,000 (total, current year)

*University of North Carolina MACS/WIHS Combined Cohort Study (UNC MWCCS)*

The Women's Interagency HIV Study (WIHS) is a longitudinal, observational cohort study of women infected with and at risk for HIV infection in the United States. The purpose of WIHS is to understand the current epidemiology of HIV infection, disease progression, treatment use and outcomes, and related co-morbidities among U.S. women.

Role: Investigator

**+ Supplement**

**U01-HL-146194-01S1 (A. Adimora, PI)** 08/01/19 - 03/31/20  
NIH/NHLBI \$174,107 (total, current year)

*UNC MACS/WIHS Combined Cohort Study (UNC MACS/WIHS-CCS) - Supplement*

This work will have helped move HIV science forward through a more thorough understanding not only of hypertension and health equity in HIV-positive women, but also of potential avenues for intervention against hypertension.

Role: Investigator

**R01-HD-088279 (J. Tang, PI)** 09/27/16 - 06/30/22  
NIH/NICHD \$516,153 (total, current year)

*A prospective cohort of HIV-infected Malawian women on efavirenz initiating the levonorgestrel implant or the depot medroxyprogesterone acetate injectable*

The study's results will help health care providers and policymakers to better counsel HIV-positive women about the risks and benefits of both contraceptives and assist these women with making an informed contraceptive choice.

Role: Investigator

**R01-AG-050733 (J. Lund, PI)** 03/01/19 - 06/01/22  
PCORI \$276,762 (total, current year)

*Enhancing Hybrid Study Designs for Comparative Effectiveness Research*

To develop research tools and guidance that will address these two issues and encourage the use of hybrid study designs to update what we know about the benefits and harms of a new therapy when it is used in clinical practice.

Role: Investigator

**R01-ES-029531** (A. Keil, PI) 09/01/18 - 05/31/23

NIH/NIEHS \$290,473 (direct, current year)

*Public health priority setting for environmental metals mixtures and birth defects*

This project identifies optimal public health strategies to reduce birth defects resulting from exposure to a Mixture of toxic metals in well water with a Bayesian causal inference framework. We apply this framework to evaluate targeted well water intervention strategies in North Carolina.

Role: Investigator

*Completed*

**DP2-HD-08-4070** (D. Westreich, PI) 09/15/14 - 08/31/19

NIH/OD/NICHD \$2,280,000 (total, all years)

*From patients to policy: innovative epidemiologic for implementation science*

To develop and elucidate novel epidemiologic methods for translating scientific results into estimates more immediately applicable to real world situations.

Role: Principal investigator

**R01-HD-094009** (E. Stringer, PI) 09/01/18 - 07/31/23

NIH/NICHD \$559,711 (total, current year)

*Understanding Maternal-Fetal Zika Virus Transmission and its Complications in Nicaragua*

Role: Investigator

**R01-AI-100654** (S. Cole, PI) 03/19/13 - 02/28/17

NIH/NIAID \$1,000,000 (direct, all years)

*Structural models for treatment and exposure effects in clinical HIV cohorts.*

Role: Investigator

**R01-HD-083033** (A. Pettifor, PI) 04/01/15 - 03/31/20

NIH/NICHD

*Innovations in HIV testing to enhance care for young women and their partners*

Role: Investigator

**2P30-AI50410** (R. Swanstrom, PI) 07/15/10 - 06/30/15

NIH/NIAID

*UNC Center for AIDS Research*

Role: Recipient of Faculty Development funds.

**P50-HS-023418** (E. Myers, PI) 09/30/14-09/29/19 0.2 calendar months (2%)

AHRQ/PCORI

*Comparing Options for Management: Patient-Centered Results for Uterine Fibroids (COMPARE-UF)*

Role: Investigator (Methods panel)

**R00-HD-06-3961** (D. Westreich, PI) 10/01/10 - 9/30/13

**K99-HD-06-3961** (D. Westreich, PI) 2/01/10 - 1/31/11

NIH/NICHD ~\$760,087 (total, all years)

*Pregnancy and response to antiretroviral therapy in South Africa*

To use pre-existing data from an adult antiretroviral therapy clinic in Johannesburg to assess the impact of pregnancy on outcomes of antiretroviral therapy, adherence to therapy, and retention in care.

Role: Principal investigator

**R21-HD-07-0822** (S. Neelon, PI) 07/01/11-06/30/13  
NIH/NICHD  
*Evaluation of a Massachusetts Physical Activity Policy for Child Care*  
Role: Investigator

**2P30-AI064518-06** (K. Weinhold, PI) 07/15/10 - 06/30/15  
NIH/NIAID  
*Duke Center for AIDS Research*  
Role: Recipient of Faculty Development funds.

**T32 AI 07001-32** (P. Sparling, PI) 7/01/08-1/31/10 12 calendar months (100%)  
NIH/NIAID \$383,993 (direct)  
*Training in Sexually Transmitted Diseases and AIDS.*  
Role: Postdoctoral fellow  
To receive training in epidemiologic methods for the analysis of longitudinal data in HIV and AIDS.

**674-A-00-08-00007-00** (I. Sanne, PI) 07/01/06 - 06/31/08 6 calendar months (50%)  
USAID/PEPFAR  
Subcontract (A. Van Rie, PI) to support analysis of outcomes of HAART in Johannesburg, South Africa.  
Role: Doctoral trainee

### Professional service and activities

#### *Editorial responsibilities*

American Journal of Epidemiology	Associate editor	2014 -
Epidemiology	Editorial board	2015 -
Current Epidemiology Reports	Methods section editor	2015 - 2016

#### *Peer review activities (ad hoc)*

(\*editorial citation for top review/er)

AIDS  
The American Statistician  
American Journal of Epidemiology\*  
Antiviral Therapy  
Biometrical Journal  
BMC Pregnancy & Childbirth  
British Medical Journal (BMJ)  
Canadian Medical Association Journal (CMAJ)  
Epidemiology\*  
Epidemiologic Perspectives and Innovations  
Expert Opinion On Drug Safety  
International Journal of Tuberculosis and Lung Disease  
International Journal of Biostatistics  
International Journal of Epidemiology  
International Journal of Obesity  
Journal of Acquired Immune Deficiency Syndrome (JAIDS) \*  
Journal of AIDS and HIV Research

Journal of Clinical Microbiology  
 Journal Of Exposure Science And Environmental Epidemiology  
 The Lancet  
 The Lancet Infectious Diseases  
 Occupational and Environmental Medicine  
 Pharmacoepidemiology and Drug Safety \*\*  
 PLoS ONE  
 Political Analysis  
 Statistics in Medicine  
 Value in Health  
 Vaccine

*Grant and conference review*

Center for AIDS Research International Pilot Grants for UC-San Diego (2009)  
 Duke Center for AIDS Research (Internal) (2010)  
 International AIDS Society Meeting (2010, 2011)  
 The MacArthur Fellows Program aka Genius Grants (2017)  
 Society for Epidemiologic Research (2011 - )

*Invited oral presentations (selected; SER presentations listed below)*

2020 NC Department of Health and Human Services, speaking on COVID-19 pooling (online)

2019 Invited participant, methods workshop, National Association of Chronic Disease Directors (Atlanta, GA)  
 Invited short course, "Tools for Generalizability," University of California at San Francisco, (San Francisco, CA)  
 Seminar, Florida International University (Miami, Florida)

2018 Seminar, Department of Population Medicine, Harvard University

2017 Plenary Speaker, WEON Conference, Antwerp, Belgium  
 Speaker, NICHD/DIPHR 50<sup>th</sup> Anniversary Symposium  
 McGill University Department of Epidemiology, Biostatistics, and Occupational Health  
 McGill University Department of Clinical Epidemiology  
 ENAR Conference, Washington D.C. (invited Discussant)  
 Columbia University Department of Epidemiology/Infectious Diseases Cluster

2016 College of Veterinary Medicine, NCSU, Raleigh NC  
 Department of Epidemiology & Biostatistics, UCSF, San Francisco CA  
 Department of Epidemiology, University of Washington, Seattle WA  
 Fred Hutchinson Cancer Research Center, Seattle, WA

2015 EnRich Webinar Series at MCHB/HRSA  
 Johns Hopkins University, Department of Epidemiology, Departmental seminar  
 Johns Hopkins University, Center for AIDS Research, Seminar  
 University of Pennsylvania, Seminar  
 Drexel University, Seminar

2013 UNC-Chapel Hill, World AIDS Day

2012 Brown University, Department of Epidemiology

- University of Washington, Institute for Health Metrics and Evaluation  
Durham VA Medical Center Research Group
- 2011 The Bill & Melinda Gates Foundation, Meeting on analysis of HC/HIV data  
University of Washington, Kenya Research Program  
Duke University, Pediatric Infectious Diseases Group Meeting  
Duke University, Division of Infectious Diseases Grand Rounds  
UNC-Chapel Hill, Friday Infectious Disease Conference
- 2010 Duke University, Center for AIDS Research Annual Retreat  
University of the Witwatersrand, Clinical HIV Research Unit  
Duke School of Medicine, Dept. of Obstetrics and Gynecology, Grand Rounds
- 2009 Society for Perinatal and Reproductive Epidemiology, Student Methods Workshop  
UNC-Chapel Hill Infectious Diseases Training Grant Symposium  
Ignite Seattle!
- 2008 University of the Witwatersrand Clinical HIV Research Unit  
UNC-Center for Women's Health 9<sup>th</sup> Annual Women's Health Research Day
- 2005 Family Health International  
IAS Conference on HIV Pathogenesis and Treatment (Rio de Janeiro, Brazil, July 2005),  
Elizabeth Glaser Pediatric AIDS Foundation Think Tank
- Society for Epidemiologic Research, presentations and service*
- 2020 SER "Wrong Question Bias"  
SER lunchtime session on "normalizing professional failures."  
SER Mid-Year meeting, co-convener/organizer (with M. Cerda)
- 2019 Speaker, session The Promise and Peril of Randomness
- 2018 Co-convener (w/ M. Kosorok), Virtuous circles: new ideas at the intersection...  
Organizer, Negotiation across the academic life-course (Professional development)  
Speaker, Big data or big anecdotes?  
Discussant, External validity session
- 2017-2020 Member at large, Executive Board (liaison to Awards Committee)
- 2017 Faculty participant, SER dissertation workshop  
SPER advanced methods workshop, invited presenter  
Participant, Early Stage Investigator Session  
Participant, Who Wants to be an Epidemiologist?  
Speaker, Epidemiology's Next 50 Years through the Lens of the Last 50
- 2016 Convener, Hot Topic: Zika Virus session  
Convener, Epidemiologic Methods for Implementation Science: From Patients to Policies  
Discussant, Epidemiologic Inference with Mechanistic Models
- 2015 Invited Chair/Organizer, HIV in an Era of Chronic Disease, Contributed Session  
SERDigital Plenary, "Big Data and Epidemiology: All hype or mostly hype?"

- 2014-2016 Chair, Symposium Committee, 2016 InterAmerican Congress of Epidemiology
- 2014 Plenary talk, “Build bridges (In populo veritas)” (Early Career Award talk)  
Invited talk, Infectious diseases epidemiology: present and future (Then and Now)  
Co-convener, Intersections between traditional epidemiologic methods and simulation...  
Co-convener, Exposure and interventions: toward more consequentialist epidemiology  
Leader, Poster tour  
Co-instructor, AJE pre-meeting workshop (with Moyses Szklo)
- 2013-2016 Member, Publications committee
- 2013 Leader, Lunchtime roundtable
- 2012 Leader, Lunchtime roundtable
- 2010 Co-convener, Methods and inference for infectious diseases  
Invited discussant, Methods for estimating marginal causal effects  
Invited chair, Unnatural selection: the survival of the fittest
- 2009 Presenter, SPER advanced methods workshop
- 2007- Member

*Media appearances/social media*

- 2020 Lunch & Learn Session, Democratic Party of Hawai’i  
Twitter: @EpidByDesign; > 1800 followers (by DATE)  
*The Atlantic Monthly*; Meyer, Madrigal, “A New Statistic Reveals Why America’s COVID-19 Numbers Are Flat,” [article link](#).  
*The Savage Lovecast*, Featured guest on Episodes 700; 705; 734  
Uncredited consulting for The Marshall Project  
WRAL ([www.wral.com/coronavirus/pool-testing-could-be-the-answer-to-getting-more-covid-19-case-results/19170927/](http://www.wral.com/coronavirus/pool-testing-could-be-the-answer-to-getting-more-covid-19-case-results/19170927/))  
Work cited in <https://www.nytimes.com/2020/10/28/health/covid-std-testing.html>

*Professional service*

- 2015-2016 WHO Writing Group, Systematic Review: Safety of Hormonal Contraceptive Methods for Women at High Risk of HIV
- 2013 WHO Writing Group, Systematic Review: Safety of Hormonal Contraceptive Methods for Women at High Risk of HIV
- 2013 Co-organizer, “Best practices in analytic approaches to assess the effect of hormonal contraception on HIV acquisition in observational data”, Seattle WA (sponsored by The Bill & Melinda Gates Foundation, USAID, FHI360)
- 2011 The Bill & Melinda Gates Foundation, Hormonal contraception and HIV Meeting
- 2011 NIH/NICHD Scientific Vision “Bringing the Vision Together” Meeting
- 2005 UNAIDS/WHO/SACEMA Consultation (Geneva, Switzerland), Temporary Advisor, “Modeling the Impact of Male Circumcision on HIV Transmission”

*Academic service*

- 2019- UNC Department of Epidemiology, *ad hoc* Faculty Search committee
- 2014- UNC Department of Epidemiology, Admissions Committee
- 2011 Summer travel grant review, Duke Global Health Institute

2011	Duke Winter Forum, Pandemic 2011, Group Leader
2010	Admissions review, Duke Global Health Institute
2009-2010	Coordinator, UNC Causal Inference Research Group
2006-2007	UNC Department of Epidemiology Graduate Studies Committee
2004-2005	UNC Student Health Action Coalition, HIV Test Counselor