

**Stephen Richards Cole**

Department of Epidemiology  
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**Employment**

Professor of Epidemiology <i>UNC Gillings School of Global Public Health</i>	2010 – present
Associate Professor of Epidemiology <i>UNC Gillings School of Global Public Health (2008 – 2010)</i> <i>Johns Hopkins Bloomberg School of Public Health (2005 – 2008)</i>	2005 – 2010
Assistant Professor of Epidemiology <i>Johns Hopkins Bloomberg School of Public Health</i>	2000 – 2005

**Education**

Postdoctoral Fellow <i>Division of Preventive Medicine</i> <i>Harvard Medical School</i>	1998 – 2000
Ph.D. <i>Department of Epidemiology and Biostatistics</i> <i>University of South Florida College of Public Health</i>	1993 – 1998
B.S. <i>University of South Florida</i>	1989 – 1993

**Honors**

Emory Harland Austin Memorial Lecture	2022
SER Joffe Epidemiologic Methods Research Award	2022
American Journal of Epidemiology article of the year	2021
Highly Cited Researcher, Web of Science / Clarivate	2019 – 2023
American Journal of Epidemiology article of the year	2018
SER Weiss-Koepsell Excellence in Education Award	2018

ACE Outstanding Contributions to Epidemiology Award	2015
Outstanding Alumni Award, USF College of Public Health	2015
American Journal of Epidemiology article of the year	2015
UNC Gillings School Teaching Innovation Award (Epidemiology)	2014
Charles C. Shepard Science Award Nomination, CDC	2010
Outstanding Review, Pharmacoepidemiology and Drug Safety	2010
Outstanding Review, Clinical Infectious Diseases	2007
Loan Repayment Award, NIH	2005 – 2007
Outstanding Dissertation Award, University of South Florida	1998
Delta Omega public health honor society	1995

### Teaching (as lead or co-lead instructor)

Decision Theory	2018
Advanced Epidemiologic Methods, with Jessie Edwards	2015 – 2017, 2019 –
Causal Inference	2012
Bayesian Inference	2010
Epidemiologic Analysis of Time-to-Event Data	2009 – 2014
Methodologic Challenges in EPID Research, with Dani Fallin	2007 – 2008
Cohort Studies, with Jon Samet and Alvaro Munoz	2002 – 2006

### Service

Ad Hoc Reviewer, NIH Director's Pioneer Award Special Emphasis Panel	2023
Post tenure review committee, Epidemiology	2023
Ad Hoc Reviewer, NIH/NIAID CFAR Special Emphasis Panel	2021
Associate Editor, Statistics in Medicine	2020 – present
Founding Member, Society for Causal Inference	2020
Member, Appointments, Promotions and Tenure Committee	2017 – 2020
Member, NIH AIDS Clinical Epidemiology study section	2015 – 2019
Associate Director, UNC CFAR Biostatistics core	2014 – present
Editor, American Journal of Epidemiology	2013 – present
Ad Hoc Reviewer, NIH AIDS Clinical Epidemiology study section	2012, 2014
Board Member-at-Large, Society for Epidemiologic Research	2011 – 2014
Director of Graduate Studies, Epidemiology	2011 – 2015
Member, Gillings School Academic Programs Committee	2011 – 2015
Director, CNICS Epidemiology and Biostatistics core	2010 – 2020
Ad Hoc Reviewer, NIH AIDS & AIDS Related Research study section	2010
Internal Advisory Board Member, UNC CFAR	2009 – 2014
Ad Hoc Reviewer, NIH Cell Biology study section	2009
Editorial Board, Epidemiology	2007 – 2013
Member, NIH/NIAID Special Emphasis Panel	2007

Associate Editor, American Journal of Epidemiology	2006 – 2013
Member, Bloomberg School Academic Standards Committee	2005 – 2008
Ad Hoc Reviewer, NIH/NICHD intramural grant review	2004
Ad Hoc Reviewer, NIH/NICHD special emphasis panel	2003
Associate Editor-in-Residence, American Journal of Epidemiology	2001 – 2006
Ad Hoc Reviewer, NIH Prevention & Health Behavior study section	2001
Member, American Statistical Association	2000 – 2012
Member, Society for Epidemiologic Research	1995 – present

**Journal Reviews Provided for:**

AIDS, American Journal of Epidemiology, Annals of Applied Statistics, Annals of Internal Medicine, Biometrics, Biometrika, Biostatistics, British Medical Journal, Clinical Infectious Disease, Clinical Trials, Demography, Environmental Health Perspectives, Epidemiology, Epidemiologic Methods, European Journal of Epidemiology, Global Epidemiology, International Journal of Biostatistics, International Journal of Epidemiology, Journal of Causal Inference, Journal of the American Medical Association, Journal of the American Medical Association Network Open, Journal of the American Statistical Association, Journal of Clinical Epidemiology, Journal of the International AIDS Society, Journal of the Royal Statistical Society C, Lifetime Data Analysis, Minds and Machines, Nature, New England Journal of Medicine, Patterns, Pharmacoepidemiology and Drug Safety, PLoS Medicine, PLoS One, PNAS, Statistics and Probability Letters, Statistics in Medicine, and others.

**Grants**

*Active*

R01AI152434 (MPI with J. Edwards)                      09/22/20 – 08/31/25  
*Improved analyses of experimental and observational studies of HIV*  
 Develop approaches to improve answers from randomized and nonrandomized HIV studies by use of new methods at the interface of statistics, epidemiology, causal inference, and artificial intelligence.

U01 AI103390 (A. Adimora, PI)                              01/01/19 – 12/31/25  
*University of North Carolina Women's Interagency HIV Study*  
 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 with HIV.  
 Role: Investigator and Leadership team

Gates OPP1192462 (J. Stringer, PI)                      11/01/18 – 10/31/23

*Limiting Adverse Birth Outcomes in Resource-Limited Settings - The LABOR Study*

To develop improved algorithms that will (a) stratify individual women according to their risk of specific adverse outcomes and predict the interventions they will likely need, (b) identify women in real time who are candidates for intervention, and (c) improve the time to diagnosis of actionable outcomes.

Role: Investigator

P01AI050410 (R. Swanstrom, PI) 08/01/21 – 07/31/26

*University of North Carolina Center for AIDS Research*

The UNC CFAR is a consortium of three institutions: UNC Chapel Hill, Research Triangle Institute, and Family Health International. The goal of the CFAR is promote the broad sweep of HIV/AIDS research through a variety of mechanisms.

Role: Associate Director of Biostatistics Core F

*Past (as Principal Investigator or Principal Statistician)*

R01HD087119 (J. Stringer, PI) 09/27/16 – 08/31/21

*A Randomized Trial of 17-Hydroxyprogesterone Caproate (17P) to Reduce Preterm Birth Among Women Receiving Antiretroviral Therapy in Pregnancy*

Preterm birth and perinatal HIV are among the two biggest risks faced by neonates in many developing countries. We propose a trial of the FDA-approved drug 17-hydroxyprogesterone caproate (17P) to prevent preterm birth among 800 HIV-infected pregnant women in Malawi and Zambia.

Role: Principal Statistician

R01AI100654 03/19/13 – 04/01/19

NIH/NIAID

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

Develop, apply and disseminate advanced, yet practical quantitative methods to enable accurate inference from complex longitudinal data on individuals infected with HIV.

R21EY021478 09/01/11 – 08/31/14

NIH/NEI

*Structural models to untangle triggers of ocular/nonocular herpesvirus recurrence*

To estimate the association between purported triggers of ocular and genital HSV recurrence in the Herpetic Eye Disease Study using state-of-the-art statistical approaches to account for time-varying confounding.

R01AA017594 09/01/08 – 08/31/12

NIH/NIAAA

*Structural models and direct and indirect effects of alcohol use on HIV infection*

To use NIH-funded data sources to adapt, apply and refine novel analytic epidemiologic methods to characterize the relation, and estimate the impact, of alcohol intake and patterns on risk of infection with HIV.

R03AI071763

03/01/07 – 02/28/09

NIH/NIAID

*Structural models to bridge observational and randomized evidence: HAART and AIDS*

To use multiple data sources to develop a novel analytic method to correct age period observational analyses for information bias and provide a refined estimate of the average causal effect of HAART on time to AIDS or death.

U01DK66116 (A. Muñoz, PI)

04/01/03 – 03/31/08

NIH/NIDDK

*Kidney Disease in Children Data Management and Analysis Center*

Establish the Data Coordinating Center for a prospective study of kidney disease in children, including management, analysis, interpretation, and presentation of data.

Role: Co-PI

**Publications** (advisee\*, 89 papers with 89+ citations on Google Scholar)

*Peer-reviewed*

1. **Cole SR**, Shook-Sa BE, Zivich PN, Edwards JK, Richardson DB, Hudgens MG. Higher-Order Evidence. *European Journal of Epidemiology* 2024; 39: 1-11.
2. **Cole SR**, Edwards JK, Breskin A, Rosin S, Zivich PN, Shook-Sa BE, Hudgens MG. Rejoinder: Combining Information with Fusion Designs, and Roses by Other Names. *American Journal of Epidemiology* 2024; [In press](#)
3. \*Ross RK, **Cole SR**, Edwards JK, Zivich PN, Westreich D, Daniels J, Price J, Stringer JSA. Leveraging external validation data: the challenges of transporting measurement error parameters. *Epidemiology* 2024; 35: 196-207.
4. \*Ross RK, Zivich PN, Stringer JSA, Cole SR. M-estimation for common epidemiologic measures: introduction and applied examples. *International Journal of Epidemiology* 2024; 52: dyae030.
5. Zivich PN, Edwards JK, Lofgren ET, **Cole SR**, Shook-Sa BE, Lessler J. Transportability without positivity. *Epidemiology* 2024; 35: 23-31.
6. Zivich PN, **Cole SR**, Edwards JK, Shook-Sa BE, Breskin A, Hudgens MG. Bridged treatment comparisons: an illustrative application in HIV treatment. *American Journal of Epidemiology* 2024; [In press](#)
7. Zivich PN, **Cole SR**, Edwards JK, Glidden DV, Das M, Shook-Sa BE, Shao Y, Mehrotra ML, Adimora AA, Eron JJ. HIV prevention among men who have sex with men: tenofovir

- alafenamide combination preexposure prophylaxis versus placebo. *Journal of Infectious Diseases* 2024; In press
8. Shook-Sa BE, Zivich PN, Rosin SP, Edwards JK, Adimora AA, Hudgens MG, **Cole SR**. Fusing Trial Data for Treatment Comparisons: Single versus Multi-Span Bridging. *Statistics in Medicine* 2024; 43: 793-815.
  9. Rittenhouse K, Vwalika B, Sebastiao Y, Pokaprakarn T, Sindao N, Saha H, Strnger E, Kasaro M, **Cole S**, Stringer J, Price J. Accuracy of portable ultrasound for obstetric biometry. *Ultrasound in Obstetrics and Gynecology* 2024; In press
  10. **Cole SR**, Zivich PN, Edwards JK, Shook-Sa BE, Hudgens MG. Sensitivity Analyses for Means or Proportions with Missing Outcome Data. *Epidemiology* 2023; 34: 645-651.
  11. **Cole SR**, Edwards JK, Zivich PN, Shook-Sa BE, Hudgens MG, Stringer JSA. Standardized Per Protocol Effects. *JAMA Network Open* 2023; 6: e2325907.
  12. **Cole SR**, Zivich PN, Edwards JK, Ross RK, Shook-Sa BE, Price JT, Stringer JSA. Missing outcome data in epidemiologic studies. *American Journal of Epidemiology* 2023; 192: 6-10.
  13. **Cole SR**, Edwards JK, Breskin A, Rosin S, Zivich PN, Shook-Sa BE, Hudgens MG. Illustration of 2 fusion designs and estimators. *American Journal of Epidemiology* 2023; 192: 467-474.
  14. \*Ross RK, **Cole SR**, Edwards JK, Westreich D, Daniels J, Stringer JAS. Accounting for Nonmonotone Missing Data using Inverse Probability Weighting. *Statistics in Medicine* 2023; 42: 4282-4298.
  15. \*Ross RK, **Cole SR**, Keil A, Edwards JK, Stringer JAS. A warning about using predicted values to estimate descriptive measures. *American Journal of Epidemiology* 2023; 192: 840-843.
  16. \*Ross RK, **Cole SR**, Westreich D, Edwards JK, Musonda P, Vwalika B, Kasaro MP, Price JT, Stringer JSA. Different effects for different questions: an illustration using short cervix and the risk of preterm birth. *International Journal of Obstetrics and Gynecology* 2023; 160: 842-849.
  17. \*Li CX, **Cole SR**, Seligman HK, Berkowitz SA. Comparing per-protocol effect estimates for population health RCTs: A re-analysis of the Feeding America Intervention Trial for Health for Diabetes Mellitus. *American Journal of Epidemiology* 2023; 192: 2094-2098.
  18. \*Yin DE, **Cole SR**, Ludema C, Brookhart MA, Golin CE, Miller WC, McKinney RE Jr. A Per-Protocol Analysis using Inverse Probability of Censoring Weights in a Randomized Trial of Initial PI versus NNRTI Regimens in Children. *American Journal of Epidemiology* 2023; 192: 916-928.

19. Zivich PN, **Cole SR**, Edwards JK, Mulholland GE, Shook-Sa BE, Tchetgen Tchetgen EJ. Introducing Proximal Causal Inference for Epidemiologists. *American Journal of Epidemiology* 2023; 192: 1224-1227.
20. Zalla LC, **Cole SR**, Eron JJ, Adimora AA, Vines AI, Silverberg MJ, Hornberg MA, Coburn SB, Lang R, Williams EC, Mayor A, Gill MJ, Moore RD, Edwards JK. Racial Disparities in the Timely Initiation of Modern Antiretroviral Therapy among People with HIV in the United States. *JAMA* 2023; 329: 52-62.
21. Zalla LC, **Cole SR**, Eron JJ, Adimora AA, Vines AI, Althoff KN, Marconi VC, Hill MJ, Horberg MA, Silverberg MJ, Rebeiro PF, Lang R, Kasaie P, Moore RD, Edwards JK. Evaluating Clinic-Based Interventions to Reduce Racial Disparities in Mortality among People with HIV in the United States. *Journal of Infectious Diseases* 2023; 228: 1690-1698.
22. Zalla LC, Edwards JK, Rudolph JF, Mulholland GF, **Cole SR**. Data Movies: A Tool for Public Health. *Epidemiology* 2023; 34: 854-855.
23. Edwards JK, **Cole SR**, Zivich PN, Shook-Sa BE. When does differential outcome misclassification matter for estimating prevalence? *Epidemiology* 2023; 34: 192-200.
24. Richardson DB, **Cole SR**, Martin AT, McClure E, Nocera M, Cantrell J, Ranapurwala SI, Marshall SW. Disparities in Fatal Occupational Injury Rates in North Carolina, 1978–2017: Comparing Nonmanagerial Employees to Managers. *Epidemiology* 2023; 34: 741-746.
25. Rosin S, Shook-Sa BE, **Cole SR**, Hudgens MG. Estimating SARS-CoV-2 seroprevalence. *Journal of the Royal Statistical Society A* 2023; 186: 834-851.
26. Jetsupphasuk M, Hudgens MG, Lu H, **Cole SR**, Edwards JK, Adimora AA, Althoff KN, Silverberg MJ, Rebeiro PF, Lima VD, Marconi VC, Sterling TR, Horberg MA, Gill MJ, Kitahata MM, Moore RD, Eron JJ. Optimizing Treatment for Human Immunodeficiency Virus to Improve Clinical Outcomes Using Precision Medicine. *American Journal of Epidemiology* 2023; 192: 1341-1349.
27. Sadinski LM, Westreich D, Edmonds A, Breger TL, Ramirez C, **Cole SR**, Brown T, Ofotokun I, Konkle-Parker D, Kassaye S, Jones Weiss D, D'Souza G, Cohen M, Tien P, Taylor T, Anastos K, Adimora AA. Hypertension and one-year risk of all-cause mortality among women with treated HIV in the United States. *AIDS* 2023; 37: 679-688.
28. \*Rudolph JE, **Cole SR**, Edwards JK, Whitsel EA, Serre ML, Richardson DB. Estimating associations between annual concentrations of particulate matter and mortality in the United States, using data linkage and Bayesian maximum entropy. *Epidemiology* 2022; 33: 157-166.

29. \*Lu H, **Cole SR**, Westreich D, Howe CJ. Toward a clearer definition of selection bias when estimating causal effects. *Epidemiology* 2022; 33: 699-706.
30. \*Lu H, **Cole SR**, Westreich D, Hudgens MG, Adimora AA, Althoff KN, Silverberg MJ, Buchaz K, Li J, Edwards JK, Rebeiro PF, Lima VD, Marconi VC, Sterling TR, Hornberg MA, Gill MJ, Kitahata MM, Eron JJ, Moore RD. Virologic outcomes among adults with HIV using integrase strand transfer inhibitor based antiretroviral regimens: a collaboration of cohort studies (with comment). *AIDS* 2022; 36: 277-286.
31. Pokaparakarn T, Prieto JC, Price JT, Kasaro MP, Sindano N, Shah HR, Peterson M, Akapelwa MM, Kapilya FM, Sebastião YV, Goodnight W, Stringer EM, Freeman BL, Montoy LM, Chi BH, Rouse DJ, **Cole SR**, Vwalika B, Kosorok MR, Stringer JSA. AI-assisted ultrasound to estimate gestational age in low resource settings. *NEJM Evidence* 2022; 1: 10.
32. Edwards JK, **Cole SR**, Breger TL, Filiatreau LM, Zalla L, Mulholland GE, Horberg MA, Silverberg MJ, Gill MJ, Rebeiro PF, Thorne J, Kasaie P, Marconi VC, Sterling TR, Althoff KN, Moore RD, Eron JJ. Five-year mortality for adults entering Human Immunodeficiency Virus care under universal early treatment compared with the general US population. *Clinical Infectious Diseases* 2022; 75(5):867-874.
33. Zivich PN, Shook-Sa BE, Edwards JK, Westreich D, **Cole SR**. On the use of covariate supersets for identification conditions. *Epidemiology* 2022; 33: 559-562.
34. Breger TL, Westreich D, Edmonds A, Edwards JK, Zalla L, **Cole SR**, Ramirez C, Ofotokun I, Kassaye S, Brown T, Konkle-Parker D, Jones Weiss D, D'Souza G, Cohen M, Tien P, Taylor T, Anastos K, Adimora AA. A new smoking cessation “cascade” among US women with or at risk for HIV infection. *AIDS* 2022; 36: 107-116.
35. Price JT, Sebastião YV, Vwalika B, **Cole SR**, Mbewe FM, Phiri WM, Kasaro MP, Peterson M, Rouse DJ, Stringer EM, Stringer JSA. Risk of adverse birth outcomes in two cohorts of pregnant women with HIV in Zambia. *Epidemiology* 2022; 33: 422-430.
36. Conner MG, Vwalika B, Freeman BL, Sebastião YV, Mabula-Bwalya CM, Peterson M, **Cole SR**, Stringer EM, Kasaro MP, Stringer JSA, Price JT. Effect of weekly 17-hydroxyprogesterone caproate on small for gestational age in subgroups of pregnant Zambian women living with HIV. *AIDS* 2022; 36: 2079-2081.
37. Richardson DB, Keil AP, **Cole SR**. Amplification of bias due to exposure measurement error. *American Journal of Epidemiology* 2022; 191: 182-187.
38. Richardson DB, Keil AP, Edwards JK, **Cole SR**, Tchetgen Tchetgen EJ. A bespoke instrumental variable approach to correction for exposure measurement error. *American Journal of Epidemiology* 2022; 191: 1954-1961.



39. Li F, Buchanan AL, **Cole SR**. Generalizing trial evidence to target populations in non-nested designs: Applications to AIDS clinical trials. *Journal of the Royal Statistical Society C* 2022; 71: 669-697.
40. Smith MJ, Mansournia MA, Maringe C, Zivich PN, **Cole SR**, Leyrat C, Belot A, Rachet B, Luque-Fernandez MA. Introduction to computational causal inference using reproducible Stata, R, and Python code. *Statistics in Medicine* 2022; 41: 407-432.
41. Zhou T, Zhou J, Hodges JS, Lin L, Chen Y, **Cole SR**, Chu H. Estimating the complier average cause effect in a meta-analysis of randomized clinical trials with binary outcomes accounting for noncompliance: A generalized linear latent and mixed model approach. *American Journal of Epidemiology* 2022; 191: 220-229.
42. Adu-Amankwah A, Bellad MB, Benson AM, Beyuo TK, Bhandankar M, Charanthimath U, Chisembele M, **Cole SR**, Dhaded SM, Enweronu-Laryea C, Freeman BL, Freeman NLB, Goudar S, Jiang X, Kasaro MP, Kosorok MR, Lockett D, Mbewe FM, Misra S, Mutesu K, Nuamah MA, Oppong SA, Patterson JK, Peterson M, Pokaparakarn T, Price JT, Pujar YV, Rouse DJ, Sebastião YV, Spelke MB, Sperger J, Stringer JSA, Tuuli MG, Valancius M, Vwalika B, and the LABOR Study Group. Limiting adverse birth outcomes in resource-limited settings (LABOR): protocol of a prospective intrapartum cohort study. *Gates Open Research* 2022; 6: 115.
43. McNeil CJ, Lee JS, **Cole SR**, Patel SA, Martin J, Mathews WC, Moore RD, Mayer KH, Eron JJ, Saag MS, Kitahata MM, Achenbach CJ, for the Centers for AIDS Research (CFAR) Network of Integrated Clinical Systems. Anal Cancer Incidence in MSM with HIV: Are Black men at higher risk? *AIDS* 2022; 36: 657-664.
44. Zalla LC, Yang JY, Edwards JK, **Cole SR**. Leveraging auxiliary data to improve precision in inverse probability-weighted analyses. *Annals of Epidemiology* 2022; 74: 75-83.
45. Xiao M, Chu H, **Cole SR**, Chen Y, MacLehose RF, Richardson DB, Greenland S. Questionable utility of the relative risk in clinical research: Paper 4: Odds Ratios are far from "portable" - A call to use realistic models for effect variation in meta-analysis. *Journal of Clinical Epidemiology* 2022; 142: 294-304.
46. Xiao M, Chen Y, **Cole SR**, MacLehose RF, Richardson DB, Chu H. Questionable utility of the relative risk in clinical research: Paper 2: Is the odds ratio "portable" in meta-analysis? Time to consider bivariate generalized linear mixed model. *Journal of Clinical Epidemiology* 2022; 142: 280-287.
47. **Cole SR**, Edwards JK, Breskin A, Hudgens MG. Comparing parametric, nonparametric, and semiparametric estimators: The Weibull trials. *American Journal of Epidemiology* 2021; 190: 1643-1651.

48. **Cole SR**, Edwards JK, Greenland S. Surprise! American Journal of Epidemiology 2021; 190: 191-193.
49. \*Lu H, **Cole SR**, Westreich D, Hudgens MG, Adimora AA, Althoff KN, Silverberg MJ, Buchacz K, Li J, Edwards JK, Rebeiro PF, Lima VD, Marconi VC, Sterling TR, Horberg MA, Gill MJ, Kitahata MM, Eron JJ, Moore RD, for the NA-ACCORD. 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 2021; 73: e1408-e1414.
50. \*Lu H, **Cole SR**, Platt RW, Schisterman EF. Revisiting overadjustment bias. Epidemiology 2021; 32: e33-e23.
51. \*Ross R, **Cole SR**, Richardson DB. Decreased susceptibility of marginal odds ratios to finite-sample bias. Epidemiology 2021; 32: 648-652.
52. Edwards JK, **Cole SR**, Breger TL, Rudolph JE, Filiatreau L, Buchacz K, Humes E, Rebeiro PF, D'Souza G, Gill J, Silverberg MJ, Mathews WC, Horberg MA, Thorne J, Moore RD, Hall HI, Justice A, Marconi VC, Lima VD, Bosch RJ, Sterling TR, Althoff KN, Saag M, Eron JJ. Mortality among people entering HIV care compared to the general US population. Annals of Internal Medicine 2021; 174: 1197-1206.
53. Price JT, Vwalika B, Freeman BL, **Cole SR**, Saha PT, Mbewe FM, Phiri WM, Peterson M, Muyangwa D, Sindano N, Mwape H, Smithmyer ME, Kasaro MP, Rouse DJ, Goldenberg RL, Chomba E, Stringer JSA. Weekly 17 alpha-hydroxyprogesterone caproate to prevent preterm birth among women living with HIV: a randomised, double-masked, placebo-controlled trial. Lancet HIV 2021; 8: e605-e613.
54. Breskin A, **Cole SR**, Edwards JK, Brookmeyer R, Eron JJ, Adimora AA. Fusion designs and estimators for treatment effects. Statistics in Medicine 2021; 40: 3124-3137.
55. Zalla LC, Edwards JK, **Cole SR**, Breger TL, Rudolph JE, Virkud A, Satcher Johnson A, Hall HI. Demographic trends in US HIV diagnoses, 2008-2017: Data movies. American Journal of Public Health 2021; 111: 529-532.
56. Zivich PN, **Cole SR**, Breskin A. Twister plots. American Journal of Epidemiology 2021; 190: 2730-2731.
57. Davy-Mendez T, Napravnik S, Eron JJ, **Cole SR**, van Duin D, Wohl DA, Hogan BC, Althoff KN, Gebo KA, Moore RD, Silverberg MJ, Horberg MA, Gill MJ, Mathews WC, Klein MB, Colasanti JA, Sterling TR, Mayor AM, Rebeiro PF, Buchacz K, Li J, Nanditha NGA, Thorne JE, Nijhawan A, Berry SA, North American AIDS Cohort Collaboration on Research and Design (NA-ACCORD) of IeDEA. Current and Past Immunodeficiency are Associated with Higher

Hospitalization Rates among Persons on Virologically Suppressive Antiretroviral Therapy for up to Eleven Years. *Journal of Infectious Diseases* 2021; 224: 657-666.

58. Davy-Mendez T, Napravnik S, Eron JJ, **Cole SR**, Van Duin D, Wohl DA, Gebo KA, Moore RD, Altoff KN, Poteat T, Gill MJ, Hornberg MA, Silverberg MJ, Nanditha GA, Thorne JE, Berry SA for the NA-ACCORD. Racial, ethnic, and gender disparities in hospitalizations among persons with HIV in the United States and Canada, 2005–2015. *AIDS* 2021; 35: 1229-1239.
59. Palella FJ, Armon C, **Cole SR**, Hart R, Tedaldi E, Novak R, Battolora L, Purinton S, Li J, Buchacz K, for the HIVS Outpatients Study. HIV viral exposure and mortality in a multicenter ambulatory HIV adult cohort, United States, 1995-2016. *Medicine* 2021; 100: e26285.
60. Richardson DB, Keil AP, Edwards JK, **Cole SR**. Reducing bias due to exposure measurement error using disease risk scores. *American Journal of Epidemiology* 2021; 190: 621-629.
61. Richardson DB, **Cole SR**, Ross RK, Poole C, Chu H, Keil AP. Meta-analysis and sparse data bias. *American Journal of Epidemiology* 2021; 190: 336-340.
62. Mollan KR, Pence BW, Xu S, Edwards JK, Mathews WC, O’Cleirigh C, Crane HM, Eaton EF, Collier AC, Weideman AK, Westreich DJ, **Cole SR**, Tierney C, Bengtson AM for the CFAR Network of Integrated Clinical Systems (CNICS) and AIDS Clinical Trials Group (ACTG). Transportability from randomized trials to clinical care: On initial HIV treatment with efavirenz and suicidal thoughts or behaviors. *American Journal of Epidemiology* 2021; 190: 2075-2084.
63. Edmonds A, Breskin A, **Cole SR**, Westreich D, Ramirez C, Cocohoba J, Wingood G, Cohen MH, Golub ET, Kassaye SG, Metsch LR, Sharma A, Konkle-Parker D, Wilson TE, Adimora AA. Poverty, deprivation, and mortality risk among women with HIV in the United States: an evaluation of improvements on neighborhood context. *Epidemiology* 2021; 32: 877-885.
64. Breskin A, Edmonds A, **Cole SR**, Westreich D, Anastos K, Cocohoba J, Cohen M, Cooper H, Golub E, Kassaye S, Konkle-Parker D, Metsch L, Wilson T, Adimora AA. G-computation for policy-relevant effects of interventions on time-to-event outcomes. *International Journal of Epidemiology* 2021; 23: 2021-2029.
65. Price JT, Vwalika B, Edwards JK, **Cole SR**, Kasaro MP, Rittenhouse KJ, Kumwenda A, Lubeya MK, Stringer JSA. Maternal HIV infection and spontaneous versus provider-initiated preterm birth in an urban Zambian cohort. *JAIDS* 2021; 87: 860-868.
66. Benefield HC, Reeder-Hayes KE, Nichols HB, Calhoun BC, Love MI, Sun X, Kirk EL, Geradts J, Hoadley KA, **Cole SR**, Earp HS, Olshan AF, Carey LA, Perou CM, Troester MA. Outcomes of hormone-receptor positive, HER2-negative breast cancers by race and tumor biological features. *JNCI Cancer Spectrum* 2021; 5: pkaa072.

67. **Cole SR**, Edwards JK, Naimi AI, Munoz A. Hidden imputations and the Kaplan-Meier estimators. *American Journal of Epidemiology* 2020; 189: 1408-1411.
68. \*Breger TL, Edwards JK, **Cole SR**, Westreich D, Pence BW, Adimora AA. Two-stage g-computation: evaluating intervention impacts in observational cohorts when exposure information is partly missing. *Epidemiology* 2020; 31: 695-703.
69. \*Breger TL, Edwards JK, **Cole SR**, Saag M, Rebeiro PF, Moore RD, Eron JJ. Estimating a set of mortality risk functions with multiple contributing causes of death. *Epidemiology* 2020; 31: 704-712.
70. \*Yin DE, **Cole SR**, Ludema C, Golin C, Miller WC, Warshaw MG, McKinney RE, for the PENPACT-1 Study Team. Pediatric Adherence to Protease Inhibitor vs. Non-Nucleoside Reverse Transcriptase Inhibitor Antiretroviral Therapy: A Randomized Controlled Trial. *PLoS ONE* 2020; 15: e0242405.
71. Edwards JK, Fox M, **Cole SR**. Flexibly accounting for exposure misclassification with external validation data. *American Journal of Epidemiology* 2020; 189: 850-860.
72. Richardson DB, Keil AP, **Cole SR**, Kinlaw AC. Assessing exposure-response trends using the disease risk score. *Epidemiology* 2020; 31: e16-e16.
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Predoctoral Trainees Table

Past / Current Trainee	Trainee Name (Where Training Occurred)	Training Period (Degree)	Prior Academic Degree Institution(s)	Prior Academic Degree(s)	Prior Academic Degree Year(s)	Title of Research Project	Current Position of Past Trainees / Source of Support of Current Trainees
Past	Choi, Tou (Hopkins)	7/01-6/03 (MS)	NA	MBBS	NA	Estimation of ordered odds ratios by data expansion	Unknown, formerly: Research Assistant, Fred Hutchinson Cancer Research Institute
Past	Nawar, Eric (Hopkins)	7/02-6/04 (MS)	NA	BS	NA	Homosexual sexual activity and Kaposi's sarcoma among HIV-1 and HHV-8 co-infected men	Director, Informatics, Elizabeth Glaser Pediatric AIDS Foundation, Washington DC
Past	Lopez-Gatell, Hugo (Hopkins)	7/03-6/07 (PhD)	Autonomous University of Mexico	MD	NA	Effect of tuberculosis on HIV progression	Director, Innovation on Infectious Disease Surveillance and Control, National Institute of Public Health, Cuernavaca, Mexico
Past	Cain, Lauren (Hopkins)	7/03-6/08 (PhD)	Princeton	AB	NA	Effect of HAART on repeated AIDS-defining illnesses: Structural models to bridge observational and randomized evidence	Senior Statistician, Takeda Pharmaceuticals, Boston MA
Past	Shiels, Meredith (Hopkins)	7/06-6/09 (PhD)	Penn State	BS	NA	Ascertainment and incidence of AIDS-defining and non-AIDS-defining cancers in a population of HIV-infected men	Senior Investigator (Tenured), NCI, Bethesda MD
Past	Gill,	8/08-12/10	UNC-Chapel	MSPH	1994	Correcting for non-	Senior Epidemiologist,



	Karminder	(PhD)	Hill			adherence in a randomized study of hip protectors to prevent fractures	Amgen
Past	Belenky, Nadya	8/09-12/12 (MSPH)	Stanford Univ.	BA	2007	Depressive symptoms, stigma and HIV viral load in Tanzania	Health Services Researcher, RTI, NC
Past	Fangman, Mary	8/10-5/12 (MSPH)	Univ. of Missouri	BS	2010	Breastfeeding and age at diagnosis of Type I diabetes mellitus	Research Associate, U of Kansas Medical Center Preventive Medicine and Public Health Kansas City, KS
Past	Ludema, Christina	8/07-5/13 (MSPH/PhD)	Calvin College	BS	2006	Causes and treatment of Herpes Simplex virus recurrences	Associate Professor (Tenured), Indiana University Bloomington School of Public Health
Past	Naimi, Ashley	8/08-12/12 (PhD)	Univ. of Montreal	MPH	2008	Causal inference in occupational epidemiology: Asbestos, lung cancer mortality, and the healthy worker survivor	Associate Professor, Epidemiology, Emory University, GA
Past	O'Brien, Katie	8/10-5/13 (PhD)	Williams College	MSPH	2010	Race and subtype differences in the replication of previously identified breast cancer susceptibility loci: A Bayesian Approach	Staff Scientist, NIEHS Research Triangle Park, NC
Past	Sander,	1/07-8/11	UNC-Chapel	MSPH	2008	Alcohol consumption and	Unknown, formerly:

	Petra	(PhD)	Hill			HIV seroconversion in men who have sex with men	Postdoctoral Fellow Epidemiology Harvard, Boston MA
Past	Edwards, Jessie	1/11-5/13 (PhD)	UNC-Chapel Hill	MSPH	2010	Methods to account for outcome misclassification in epidemiology	Associate Professor (Tenured), Epidemiology, UNC Chapel Hill, NC
Past	Lesko, Catherine	8/11-5/15 (PhD)	Emory Univ.	MPH	2006	The population level impact of HIV treatment in the test-and-treat era	Assistant Professor, Epidemiology, Johns Hopkins University, Baltimore MD
Past	Todd, Jonathan	1/12-12/15 (PhD)	UNC-Chapel Hill	MSPH	2011	Statin use among HIV+ women	Senior Research Associate, OCHIN, Portland OR
Past	Lee, Jennifer	8/13-5/17 (PhD)	Johns Hopkins	MSPH	2011	Incomplete viral suppression and mortality in HIV patients after antiretroviral therapy initiation	Assistant Scientist, Epidemiology, Johns Hopkins University, Baltimore MD
Past	Willis, Sarah	8/15-12/17 (PhD)				HCV coinfection and HIV progression	Director, Vaccines RWE Scientist, Pfizer
Past	Rudolph, Jacqueline	8/14-5/19 (MSPH/PhD)	UNC-Chapel Hill	BA	2013	Trends in US Mortality and Effects of Potential Nationwide Interventions on Ambient Fine Particulate Matter	Assistant Scientist, Epidemiology, Johns Hopkins University, Baltimore MD
Past	Breger, Tiffany	8/16-5/20 (PhD)	UC Berkeley	BS	2014	Estimating the Impact of Intervention Portfolios in Cohort Studies	Assistant Professor of Medicine, UNC-Chapel Hill, NC
Past	Lu, Haidong	8/16-6/20 (PhD)	Johns Hopkins	MSPH	2015	Comparative Effectiveness of Integrase Strand	Assistant Professor, Yale, New Haven, CT

						Transfer Inhibitor-based vs Efavirenz-based Antiretroviral Regimens Among HIV-infected Adults	
Past	Yin, Dwight	8/15-8/20 (PhD)		MD, MPH		Accounting for Adherence in Comparisons of Pediatric Antiretroviral Therapy	Medical Officer, NIAID/NIH
Past	Ross, Rachael	8/19-5/23 (PhD)	Emory	MPH	2011	Missing Data and Measurement Error: Analytic Approaches for Studies with Examples from Pregnancy Outcomes Research	Postdoctoral Fellow Columbia University
Current	Li, Catherine	8/19-present (MD/PhD)	UC Berkeley	MPH	2018	TBN	Current MD/PhD student
Current	Feeney, Timothy	8/20-present (PhD)	U Maryland Harvard	MD MPH	2014 2017	TBN	Current PhD student: Research Assistantship
Current	Klose, Mark	8/21-present (MSPH/PhD)	NC State	BS	2021	TBN	Current PhD student: Research Assistantship
Current	Weiner, Catherine	8/22-present (PhD)	UNC	MS	TBN	TBN	Current PhD Student: Pharmacoepidemiology training grant

**Postdoctoral Trainees Table**

<b>Past/ Current Trainee</b>	<b>Trainee Name (Where Training Occurred)</b>	<b>Postdoc Research Training Period</b>	<b>Prior Academic Degree(s)</b>	<b>Prior Academic Degree Year(s)</b>	<b>Prior Academic Degree Institution(s)</b>	<b>Title of Research Project</b>	<b>Current Position of Past Trainees/ Source of Support of Current Trainees</b>
Past	Howe, Chanelle	6/09-7/11 (non-degree)	PhD	2009	Johns Hopkins University	Structural models and direct and indirect effects of alcohol use on HIV infection	Associate Professor (Tenured), Brown University, Providence, RI
Past	Westreich, Daniel	2/10-9/10 (non-degree)	PhD	2008	UNC-Chapel Hill	HIV, antiretroviral therapy, and tuberculosis: Outcomes in Johannesburg, South Africa	Professor (Tenured), UNC-Chapel Hill, NC
Past	Edwards, Jessie	6/13-6/15 (non-degree)	PhD	2013	UNC-Chapel Hill	Applications and extensions of quantitative methods for the analysis of complex longitudinal cohort data	Associate Professor (Tenured), UNC-Chapel Hill, NC
Past	Zivich, Paul	6/21-10/23 (non-degree)	PhD	2021	UNC-Chapel Hill	Methods for bridged treatment effects	Assistant Professor, UNC-Chapel Hill