Curriculum Vitae of Neal D. Goldstein, PhD, MBI

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EDUCATION
DEGREES

Doctor of Philosophy in Epidemiology, September 2015
Drexel University School of Public Health (Philadelphia, PA)
On Individual and Community-Level Determinants of Pertussis Incidence and Vaccination (pdf)

Master of Biomedical Informatics, June 2007
Oregon Health & Science University School of Medicine (Portland, OR)
Development of an Epidemiologic Data Warehouse for the Oregon Immunization ALERT Registry (pdf)

Bachelor of Science in Computer and Information Sciences, May 2002
University of Delaware (Newark, DE)

TRAINING

Postdoctoral Fellowship in Perinatal and Infectious Disease Epidemiology, 2015 – 2017
Christiana Care Health System (Newark, DE)

RESEARCH and ACADEMICS
POSITIONS

Associate Research Professor, Department of Epidemiology & Biostatistics, 2022 –
Assistant Research Professor, Department of Epidemiology & Biostatistics, 2016 – 2022
Drexel University Dornsife School of Public Health (Philadelphia, PA)

Epidemiologist, Department of Pediatrics, 2015 – 2019
Christiana Care Health System (Newark, DE)

Research Associate, Department of OB/GYN and Women's Health Research, 2013 – 2015
University of Wisconsin School of Medicine and Public Health (Madison, WI) and Christiana Care Health System (Newark, DE)

Sr. Research Assistant, Department of Medical Informatics & Clinical Epidemiology, 2006 – 2007
Oregon Health & Science University (Portland, OR)

AFFILIATIONS

Faculty Affiliate, Clinical Futures, Children's Hospital of Philadelphia (Philadelphia, PA)
Adjunct Fellow, Center for Public Health Initiatives, University of Pennsylvania (Philadelphia, PA)
Member, Center for AIDS Research, University of Pennsylvania (Philadelphia, PA)

TEACHING

Courses

Drexel University Dornsife School of Public Health (Philadelphia, PA)
EPI 806: Bias and Validity in Epidemiology: 2023
EPI 800: Epidemiology PhD Seminar: 2019 – 2022
EPI T680: Electronic Health Records: 2024
EPI 572: Design and Analysis of Epidemiological Studies: 2017
EPI 570: Introduction to Epidemiology: 2016 – 2019
EPI 564: Data Science using R: 2018
PBHL 101: Introduction to Public Health: 2016

Guest Lectures

Drexel University Dornsife School of Public Health (Philadelphia, PA)
EPI 880: Advanced Topics in Epidemiologic: History, Theory and Biases (topic: methods): 2021, 2023
PBHL 834: Advanced Epidemiology II: Methodologic Challenges (topic: misclassification): 2015
BST 826: Research Skills in Biostatistics (topic: reproducible research): 2020, 2023
PBHL 830: Advanced Epidemiology (topic: misclassification): 2016 – 2017, 2019
EPI 801: Causal Inference in Epidemiology (topics: identifiability, validity, complex exposure): 2023
EPI 610: Public Health Surveillance (topic: vaccines and vaccine preventable-diseases): 2018 – 2021
EPI 564: Data Science using R (topic: GIS and spatial analysis): 2017, 2019
EPI 560: Intermediate Epidemiology (topic: confounding): 2017
PBHL 301: Epidemiology in Public Health (topic: ratio measures of risk): 2014
PBHL 101: Introduction to Public Health (topic: epidemiology): 2014 – 2015

Drexel University College of Medicine (Philadelphia, PA)
MIIM 653: Clinical Correlations in Infectious Disease (topic: clinical epidemiology): 2018, 2020 – 2022

Drexel University College of Nursing and Health Professions (Philadelphia, PA)
PA 547: Evidence Based Medicine (topic: epidemiology): 2016 – 2017, 2019

Drexel University LeBow College of Business (Philadelphia, PA)
BUSN 260: Introduction to Business Analytics (topic: statistical analysis of data): 2018
BUSN 460: Business Analytics Senior Project (topic: data in healthcare): 2018

Temple University College of Public Health (Philadelphia, PA)
PBHL 3101: Epidemiology (topic: communicable diseases): 2015

Boston University School of Public Health (Boston, MA)
EP 755: Infectious Disease Epidemiology (topic: modeling): 2017 – 2018

Workshops

Utilizing electronic health records for epidemiological analysis. Society for Epidemiologic Research Annual
Meeting: 2019 – 2024; Drexel University Urban Health Summer Institute: 2021

Fundamentals of Research. Christiana Care Health System Department of Obstetrics and Gynecology: 2017
Introduction to R, Geocoding, and Working with Census Data. Philadelphia Department of Public Health: 2014

Advising and Mentoring
Justin Jones (PhD student, Epidemiology). Role Advisor. Drexel University Dornsife School of Public Health
(Philadelphia, PA). 2023 –

Nicole Rafalko (PhD student, Epidemiology). Role Advisor. Drexel University Dornsife School of Public Health
(Philadelphia, PA). 2022 –

Melissa Meeker (PhD, Biostatistics). *A Spatial Extension of the Random Forest Algorithm*. Role: Committee
Member. Drexel University Dornsife School of Public Health (Philadelphia, PA). 2021 – 2023

Jessica Webster (PhD candidate, Epidemiology). *Epidemiology of Healthcare-associated Clostridioides difficile:
Towards Improved Understanding of Transmission Dynamics and Risk Factors for Infection*. Role: Advisor.
Drexel University Dornsife School of Public Health (Philadelphia, PA). 2020 –

Fred Rahmanian (DHSc student). Role: Committee Member. Drexel University College of Nursing and Health
Professions (Philadelphia, PA). 2020 –

Rini Jose (PhD, Epidemiology). *The Importance of Place and Space: Exploring Individual and Community-Level
Determinants of Hepatitis C Virus in Philadelphia, PA*. Role: Committee Member. Drexel University Dornsife
School of Public Health (Philadelphia, PA). 2020 – 2023

Valerie Raziano (DrPH, Community Health and Prevention). *Examining Prenatal Care as an Opportunity to
Improve Prenatal and Infant*. Role: Committee Member. Drexel University Dornsife School of Public Health
(Philadelphia, PA). 2020 – 2022

Nguyen Tran (PhD, Epidemiology). *Evaluating the Mechanism of Behavioral Risk Compensation due to
Pre-exposure Prophylaxis among Gay, Bisexual, and Men Who Have Sex with Men*. Role: Co-advisor. Drexel
University Dornsife School of Public Health (Philadelphia, PA). 2019 – 2022

Anqi Wang (PhD, Epidemiology). *LGB Sexual Minority Identity and Chronic Inflammatory Disease*. Role:
Committee Member. Drexel University Dornsife School of Public Health (Philadelphia, PA). 2019 – 2022

Daniel Vader (PhD, Epidemiology). *Self-reported hepatitis B vaccination status: misclassification and biased
estimates of coverage in the United States*. Role: Committee Member. Drexel University Dornsife School of
Public Health (Philadelphia, PA). 2017 – 2020

Tirza Calderon (PhD, Epidemiology). *Addressing Disparities in Pertussis Epidemiology*. Role: Committee
Member. University of Pennsylvania School of Medicine (Philadelphia, PA). 2017 – 2019

Riana Tuwaidan (MPH, Epidemiology). *Exploring the Association of Race and Sexuality Against COVID-19 Vaccination Rates and Influenza Vaccination Rates.* Role: Preceptor. Drexel University Dornsife School of Public Health (Philadelphia, PA). 2023 – 2023

Ashley Alawi (MPH, Epidemiology). *Examining the temporal progression of organisms colonized in the endotracheal tube for the NICU population at Christiana Hospital.* Role: Preceptor. Drexel University Dornsife School of Public Health (Philadelphia, PA). 2022 – 2023

Anna Davis (MPH, Epidemiology). *An evaluative study of risk factors in exploring the causal relationship between kidney disease and Clostridium difficile infection: An EMR retrospective case-control study at Hahnemann University Hospital.* Role: Preceptor. Drexel University Dornsife School of Public Health (Philadelphia, PA). 2021 – 2022

Gunnar Jacob (MPH, Epidemiology). *Examining Case-Control Study Data and Predictive Modelling of C. diff Infections.* Role: Preceptor. Drexel University Dornsife School of Public Health (Philadelphia, PA). 2021 – 2022

Jennifer Rokhsar (MPH, Epidemiology). *A Deterministic Model of T.cruzi Population Dynamics after Canine Treatment with Fluralaner*. Role: Preceptor. Drexel University Dornsife School of Public Health (Philadelphia, PA). 2019 – 2020

Janeway Granche (MS, Epidemiology). *Assessing the Power of Neighborhood and Individual Level Factors to Predict PrEP Eligibility*. Role: Co-mentor. Drexel University Dornsife School of Public Health (Philadelphia, PA). 2018 – 2019

Chelsea Weldie (MS, Drug Discovery and Development). *Clostridium difficile at Hahnemann University Hospital*. Role: Committee Member. Drexel University College of Medicine (Philadelphia, PA). 2017 – 2019

Nguyen Tran (MPH, Epidemiology). *Agent-based models for evaluating Doxycycline to prevent sexually transmitted infections among men who have sex with men*. Role: Co-mentor. Drexel University Dornsife School of Public Health (Philadelphia, PA). 2017 – 2018

OTHER EXPERIENCE
Consultant
ChristianaCare (Newark, DE), 2019 – 2020, 2022 – 2024
Cohen, Ziffer, Frenchman, & McKenna (New York, NY), 2021 – 2022
Merck & Co., Inc. (North Wales, PA), 2018

Connectivity Engineer, 2004 – 2012
Hologic, Inc. (Newark, DE)

FUNDING, HONORS and AWARDS
FUNDED GRANTS and SPONSORED PROJECTS

Advancing Policy as a Public Health Intervention to Reduce Morbidity, Mortality and Disparities in HIV, Viral Hepatitis, STDs, and Tuberculosis. Role: Co-investigator (Principal Investigator: Scott Burris). Centers for Disease Control and Prevention's National Center for HIV, Viral Hepatitis, STD, and TB Prevention Sponsored Project (NH25PS005202). 2023 - 2026

Social and policy determinants and impacts on COVID-19 and influenza disparities. Role: Co-mentor (Principal Investigator: Alina Schnake-Mahl). NIH NIAID Career Development Award (K01AI168579). 2022 – 2027.

Daily oral ART use, barriers, and preferences for long-acting ART. Role: Co-investigator (Principal Investigator: Seth L. Welles). Merck Sponsored Project. 10% effort, 2021 – 2023.

A Cross-Sectional Survey of PrEP Awareness, Barriers and Facilitators for PrEP Uptake, and the Impact of Dosing Mechanisms on Willingness to Take PrEP among MSM Indicated for PrEP Use in Philadelphia: The impact of Intersectional Discrimination on Risk Disclosure and PrEP Uptake. Role: Co-investigator (Principal Investigator: Seth L. Welles). Merck Investigator Studies Program. 12.5% effort, 2020 – 2022.

The Health Consequence of Urban Scaling. Role: Co-investigator (Principal Investigator: Usama Bilal). NIH Director's Early Independence Award (1DP5OD026429). 10% effort, 2020 – 2021.

Towards improving access to health screening services in Philadelphia, Pennsylvania. Role: Principal Investigator/Mentor. Mid-Atlantic Regional Public Health Training Center Collaborative Project. $3500, 2021.

Improving Spatial Surveillance for COVID-19 Cases while Accounting for Errors in Testing. Role: Principal Investigator. Drexel University Office of Research & Innovation's COVID-19 Rapid Response Research & Development Award. 8.75% effort, 2020.

Disparities in Clostridium difficile infection at an urban hospital. Role: Principal Investigator/Mentor. Mid-Atlantic Regional Public Health Training Center Collaborative Project. $3500, 2020.

Towards prevention of HIV among vulnerable and stigmatized populations using geospatial data. Role: Principal Investigator. NIH NIAID Career Development Award (1K01AI143356). 75% effort, 2019 – 2024.

Community Partnership with Westside Family Healthcare FQHC to Expand Chronic Hepatitis C Virus (HCV) Patient and Provider Education, Screening and Successful Treatment. Role: Co-Investigator (Principal Investigator: Deborah Kahal). Harrington Value Institute Community Partnership. 20% effort, 2018 – 2020.

Reducing Variation in Group Care through Physician Reporting Cards. Role: Principal Investigator. Christiana Care Physician Professionalism Council Grant. 40% effort, 2017 – 2018.

Identification of Risk Factors to Clostridium difficile Infection (CDI) at Hahnemann University Hospital (HUH). Role: Co-Investigator (Principal Investigator: Michele A. Kutzler). Pfizer, Inc. 15% effort, 2016 – 2019.

The HPV Prevention Paradigm: A Simulation-based Comparison of Vaccination, Condom Use, and Risk Adaptive Behaviors among Men who have Sex with Men in the US. Role: Principal Investigator. Merck Investigator Studies Program. 25% effort, 2016 – 2017.

HONORS and AWARDS

Junior Faculty Research Award, Drexel University Dornsife School of Public Health: 2021

Transforming Public Health Surveillance Scholarship, episummer@columbia: 2021

NIH NIMHD Health Disparities Research Institute Scholar: 2018

Kenneth Rothman Travel Scholarship, Society for Epidemiologic Research Annual Meeting: 2018

Lilienfeld Postdoctoral Prize Paper Award, Society for Epidemiologic Research Annual Meeting: 2017

Seema S. Sonnad Ph.D. Memorial Award for Distinguished Value Institute Scholars: 2017

Tyroler Student Prize Paper Award, Epidemiology Congress of the Americas: 2016

Travel Scholarship, Autism Speaks: 2016

Graduate Student Travel Award, Drexel University Department of Epidemiology: 2015

Research Assistantship, Drexel University Department of Epidemiology: 2014 – 2015

Teaching Assistantship, Drexel University Department of Epidemiology: 2013 – 2014

Scholarship, Drexel University Department of Epidemiology: 2012 – 2013

PUBLICATIONS and PRESENTATIONS

BOOKS

Goldstein ND. A Researcher's Guide to Using Electronic Health Records: From Planning to Presentation. 2nd edition. Routledge. July 2023. ISBN: 9781032169590.

Ferrie C, **Goldstein N**, Suder J. Germ Theory for Babies. Sourcebooks. February 2021. ISBN: 9781728234076.

Ferrie C, **Goldstein N**, Suder J. Pandemics for Babies. Sourcebooks. October 2020. ISBN: 9781728234168.

Goldstein ND. Improving Population Health Using Electronic Health Records: Methods for Data Management and Epidemiological Analysis. CRC Press. March 2017. ISBN: 9781498759106

BOOK CHAPTERS

Eppes SC, **Goldstein ND**. Lyme Disease (*Borrelia burgdorferi*). In: Kliegman RM, St. Geme J, Blum NJ, Wilson K, Shah SS, Tasker RC, eds. Nelson Textbook of Pediatrics. Elsevier; 2019. ISBN: 9780323529501

Goldstein N, Ross D, Christensen K, Kalpathy-Cramer J, Kumar A, Schroeder M. Digital Radiology Divide at McKinly. In: Einbinder L, Lorenzi NM, Ash JS, Gadd CS, Einbinder J, eds. Transforming Health Care Through Information: Case Studies. New York, NY: Springer; 2009:179-189. ISBN: 9781441902696

SCIENTIFIC ARTICLES (* denotes student/mentee)

Rafalko N*, Webster JL*, Jacob G*, Kutzler M, **Goldstein ND**. Generalisability of predictive models for Clostridioides difficile infection, severity, and recurrence at an urban safety-net hospital. J Hosp Infect. 2024 Jan 12:S0195-6701(24)00005-7. DOI: 10.1016/j.jhin.2024.01.001 [code: 10.5281/zenodo.10418963]

Webster JL*, **Goldstein ND**, Rowland JP, Tuite CM, Siegel SD. A catchment and location-allocation analysis of mammography access in Delaware, US: implications for disparities in geographic access to breast cancer screening. Breast Cancer Res. 2023 Nov 8;25(1):137. DOI: 10.1186/s13058-023-01738-w

Schnake-Mahl A & Anfuso G (co-first authors), **Goldstein ND**, Purtle J, Eberth J, Ortigoza A, Bilal UMeasuring Variation in Infant Mortality and Deaths of Despair by U.S. Congressional Districts in Pennsylvania: A Methodological Case Study. American Journal of Epidemiology. In Press.

Webster JL* & Rafalko N* (co-first authors), Thorpe LE, Duncan DT, Gracely EJ, **Goldstein ND**. Alignment of Ending the HIV Epidemic Priority Jurisdictions With Availability of HIV Service Organizations: An Ecological Study. AIDS Educ Prev. 2023 Aug;35(4):320-331. DOI: 10.1521/aeap.2023.35.4.320 [code: 10.5281/zenodo.8071886]

Tran NK*, Welles SL, **Goldstein ND**. Geolocation to Identify Online Study-Eligible Gay, Bisexual, and Men who have Sex with Men in Philadelphia, Pennsylvania. Epidemiology. 2023 Jul 1;34(4):462-466. DOI: 10.1097/EDE.0000000000001607

Rokhsar JL*, Raynor B, Sheen J, **Goldstein ND**, Levy MZ, Castillo-Neyra R. Modeling the impact of xenointoxication in dogs to halt Trypanosoma cruzi transmission. PLoS Comput Biol. 2023 May 8;19(5):e1011115. DOI: 10.1371/journal.pcbi.1011115

Fusfeld ZH, Goyal NK, **Goldstein ND**, Chung EK. Assessing and Validating a Model of Study Completion for a Prospective Cohort of Healthy Newborns. Hosp Pediatr. 2022 Dec 7:e2022006626. DOI: 10.1542/hpeds.2022-006626

Tran NK*, Martinez O, Scheim AI, **Goldstein ND**, Welles SL. Perceived Barriers to and Facilitators of Long-Acting Injectable HIV PrEP Use Among Black, Hispanic/Latino, and White Gay, Bisexual, and Other Men Who Have Sex With Men. AIDS Educ Prev. 2022 Oct;34(5):365-378. DOI: 10.1521/aeap.2022.34.5.365

Webster JL*, Thorpe LE, Duncan DT, **Goldstein ND**. Accessibility of HIV Services in Philadelphia: Location-Allocation Analysis. Am J Prev Med. 2022 Aug 31:S0749-3797(22)00336-1. DOI: 10.1016/j.amepre.2022.06.011

Estep K, Muse A, Sweeney S, **Goldstein ND**. Partisan Polarization of Childhood Vaccination Policies, 1995–2020. Am J Public Health. 2022 Aug 25:e1-e9. DOI: 10.2105/AJPH.2022.306964

Goldstein ND, Kahal D, Testa K, Gracely EJ, Burstyn I. Data Quality in Electronic Health Record Research: An Approach for Validation and Quantitative Bias Analysis for Imperfectly Ascertained Health Outcomes Via Diagnostic Codes. Harv Data Sci Rev. 2022 Spring;4(2):10.1162/99608f92.cbe67e91. DOI: 10.1162/99608f92.cbe67e91 [code: 10.5281/zenodo.5899411]

Goldstein ND, Burstyn I. Further Improving Analysis of Date-Based COVID-19 Surveillance Data. Am J Public Health. 2022 May;112(5):e1-e2. DOI: 10.2105/AJPH.2022.306759 [code: 10.5281/zenodo.5798398]

Goldstein ND, Suder JS. Towards Eliminating Nonmedical Vaccination Exemptions Among School-Age Children. Dela J Public Health. 2022 Mar 29;8(1):84-88. DOI: 10.32481/djph.2022.03.014

Goldstein ND, Webster JL, Robinson LF, Welles SL. Disparities of COVID-19 and HIV Occurrence Based on Neighborhood Infection Incidence in Philadelphia, Pennsylvania. Am J Public Health. 2022 Mar;112(3):408-416. DOI: 10.2105/AJPH.2021.306538 [code: 10.5281/zenodo.5020468]

Webster JL*, Paul D, Purtle J, Locke R, **Goldstein ND**. State-Level Social and Economic Policies and Their Association With Perinatal and Infant Outcomes. Milbank Q. 2022 Mar;100(1):218-260. DOI: [10.1111/1468-0009.12548](10.1111/1468-0009.12548)

Gianfrancesco MA, **Goldstein ND**. A narrative review on the validity of electronic health record-based research in epidemiology. BMC Med Res Methodol. 2021 Oct 27;21(1):234. DOI: [10.1186/s12874-021-01416-5](10.1186/s12874-021-01416-5)

Tran NK*, Lash TL, **Goldstein ND**. Practical data considerations for the modern epidemiology student. Global epidemiology. Glob Epidemiol. 2021 Nov;3:100066. DOI: 10.1016/j.gloepi.2021.100066

Tran NK*, **Goldstein ND**, Welles SL. Countering the rise of syphilis: A role for doxycycline post-exposure prophylaxis? Int J STD AIDS. 2021 Sep 26:9564624211042444. DOI: [10.1177/09564624211042444](10.1177/09564624211042444) [code: 10.5281/zenodo.5116284]

Goldstein ND, Quick H, Burstyn I. Effect of adjustment for case misclassification and infection date uncertainty on estimates of COVID-19 effective reproduction number. Epidemiology. 2021 Jul 19. DOI: [10.1097/EDE.0000000000001402](10.1097/EDE.0000000000001402) [code: 10.5281/zenodo.5009050]

Jose R*, Kahal D, Testa K, **Goldstein ND**. A Qualitative Study of Implementing Universal Hepatitis C Screening Among Adults at an Urban Community-Based Health Provider in Delaware. Dela J Public Health. 2021 Jul 15;7(3):16-23. DOI: 10.32481/djph.2021.07.006

Goldstein ND, Kahal D, Testa K, Burstyn I. Inverse probability weighting for selection bias in a Delaware community health center electronic medical record study of community deprivation and hepatitis C prevalence. Ann Epidemiol. 2021 Apr 29;60:1-7. DOI: 10.1016/j.annepidem.2021.04.011 [code: 10.5281/zenodo.4630272]

Goldstein ND, Wheeler DC, Gustafson P, Burstyn I. A Bayesian approach to improving spatial estimates of prevalence of COVID-19 after accounting for misclassification bias in surveillance data in Philadelphia, PA. Spat Spatiotemporal Epidemiol. 2021 Feb;36:100401. DOI: 10.1016/j.sste.2021.100401 [code: 10.5281/zenodo.4116290]

Goldstein ND. Misinformation. Am J Public Health. 2021 Feb;111(2):e3-e4. DOI: 10.2105/AJPH.2020.306056.

Vader DT*, Weldie C*, Welles SL, Kutzler MA, **Goldstein ND**. Hospital-acquired *Clostridioides difficile* infection among patients at an urban safety-net hospital in Philadelphia: Demographics, neighborhood

deprivation, and the transferability of national statistics. Infect Control Hosp Epidemiol. 2020 Dec 7:1-7. DOI: 10.1017/ice.2020.1324

Goldstein ND, Palumbo AJ, Bellamy SL, Purtle J, Locke R. State and Local Government Expenditures and Infant Mortality in the United States. Pediatrics. 2020 Oct 19:e20201134. DOI: 10.1542/peds.2020-1134 [code: 10.5281/zenodo.3972165]

Goldstein ND, Burstyn I. On the importance of early testing even when imperfect in a pandemic such as COVID-19. Glob Epidemiol. 2020 Nov;2:100031. DOI: 10.1016/j.gloepi.2020.100031 [code: 10.5281/zenodo.3962295]

Goldstein ND, Suder JS. Application of state law in the public health emergency response to COVID-19: an example from Delaware in the United States. J Public Health Pol. 2020 Sep. DOI: 10.1057/s41271-020-00257-8

Burstyn I, **Goldstein ND**, Gustafson P. It can be dangerous to take epidemic curves of COVID-19 at face value. Version 2. Can J Public Health. 2020 Jun;111(3):397-400. DOI: 10.17269/s41997-020-00367-6

Burstyn I, **Goldstein ND**, Gustafson P. Towards reduction in bias in epidemic curves due to outcome misclassification through Bayesian analysis of time-series of laboratory test results: Case study of COVID-19 in Alberta, Canada and Philadelphia, USA. BMC Med Res Methodol. 2020 Jun 6;20(1):146. DOI: 10.1186/s12874-020-01037-4

Tran NK*, **Goldstein ND**, Purtle J, Massey PM, Lankenau SE, Suder JS, Tabb LP. The heterogeneous effect of marijuana decriminalization policy on arrest rates in Philadelphia, Pennsylvania, 2009-2018. Drug Alcohol Depend. 2020;212:108058. DOI: 10.1016/j.drugalcdep.2020.108058

Goldstein ND, LeVasseur MT, McClure LA. On the Convergence of Epidemiology, Biostatistics, and Data Science. Harvard Data Science Review. 2020 Apr 30. DOI: 10.1162/99608f92.9f0215e6

Huynh TQ, Patel NR, **Goldstein ND**, Makai GE. Preoperative gabapentin for minimally invasive hysterectomy: a randomized controlled trial. J Minim Invasive Gynecol. 2020;S1553-4650(20)30229-6. DOI: 10.1016/j.jmig.2020.04.040

James CW, Szabo S, Kahal D, **Goldstein ND**. The effect of multivitamins and polyvalent cations on virologic suppression with integrase strand transfer inhibitors. AIDS. 2020 Mar 1;34(3):487-489. DOI: 10.1097/QAD.0000000000002438

Goldstein ND, Hamra GB, Harper S. Are descriptions of methods alone sufficient for study reproducibility? Epidemiology. 2020 Mar;31(2):184-188. DOI: 10.1097/EDE.0000000000001149 [code: zenodo.3255043]

Goldstein ND, Purtle J, Suder JS. Association of Vaccine-Preventable Disease Incidence With Proposed State Vaccine Exemption Legislation. JAMA Pediatr. 2019 Nov 18. DOI: 10.1001/jamapediatrics.2019.4365 [code: zenodo.3241849]

Hamra GB, **Goldstein ND**, Harper S. Resource Sharing to Improve Research Quality. J Am Heart Assoc. 2019 Aug 6;8(15):e012292. DOI: 10.1161/JAHA.119.012292

Tran NK*, **Goldstein ND**. Jointly Representing Geographic Exposure and Outcome Data Using Cartograms. Am J Epidemiol. 2019 Sep 1;188(9):1751-1752. DOI: 10.1093/aje/kwz141 [code: zenodo.1745442]

Goldstein ND, LeVasseur MT, Tran NK, Purtle J, Welles SL, Eppes SC. Modeling HPV vaccination scale-up among urban young men who have sex with men in the context of HIV. Vaccine. 2019 Jun 27;37(29):3883-3891. DOI: 10.1016/j.vaccine.2019.05.047 [code: zenodo.2652534]

Paul DA, Johnson D, **Goldstein ND**, Pearlman SA. Development of a single-center quality bundle to prevent sudden unexpected postnatal collapse. J Perinatol. 2019 Jul;39(7):1008-1013. DOI: 10.1038/s41372-019-0393-y

Goldstein ND, Kahal D. Comments on the Communicable Disease Issue by the Guest Editors. Dela J Public Health. 2019 May 28;5(2):4. DOI: 10.32481/djph.2019.05.002

Tran NK*, Hatzenbuehler ML, **Goldstein ND**. Potential Relationship between HIV Criminalization and Structural Stigma Related to Sexual Orientation in the U.S. J Acquir Immune Defic Syndr. 2019 Apr 15;80(5):e106-e108. DOI: 10.1097/QAI.0000000000001961 [code: zenodo.2210014]

Goldstein ND, Suder JS, Purtle J. Trends and characteristics of proposed and enacted state legislation on childhood vaccination exemption, 2011 – 2017. Am J Public Health. 2018 Nov 29:e1-e6. DOI: 10.2105/AJPH.2018.304765 [code: zenodo.1409660]

Washio Y, **Goldstein ND**, Mackley A, Hoffman MK, Locke R, Paul DA. Receipt of Antenatal Steroids and Respiratory Support among Substance-exposed premature Infants. Pediatric Nursing. 2018 July/August;44(4):177-181.

Washio Y, **Goldstein ND**, Butler R, Rogers S, Paul DA, Terplan M, Hoffman MK. Self-report Measure as a Useful Tool to Identify Prenatal Substance Use and Predict Adverse Birth Outcomes. Clinical Ethics. September 2018;13(3):137-142.

Kahal D, **Goldstein ND**, Bincsik A, Stephens T, Testa K, Szabo S. Expanding care for patients infected with Hepatitis C through community partnership in Delaware. Dela J Public Health. 2018 Nov 8;4(5):76-79. DOI: 10.32481/djph.2018.11.012

Tran NK*, **Goldstein ND**, Welles SL. Bias Adjustment Techniques Are Underutilized in HIV Sexual Risk Estimation: A Systematic Review. Int J Environ Res Public Health. 2018 Aug 9;15(8). DOI: 10.3390/ijerph15081696

Goldstein ND, Jenness SM, Tuttle D, Power M, Paul DA, Eppes SC. Evaluating a neonatal intensive care unit MRSA surveillance programme using agent-based network modelling. J Hosp Infect. 2018 Nov;100(3):337-343. DOI: 10.1016/j.jhin.2018.05.002 [code: zenodo.1227270]

Paul DA, **Goldstein ND**, Locke R. Delaware Infant Mortality. Dela J Public Health. 2018 May 10;4(3):24-31. DOI: 10.32481/djph.2018.05.006

Goldstein ND, Tuttle D, Tabb LP, Paul DA, Eppes SC. Spatial and Environmental Correlates of Organism Colonization and Infection in the Neonatal Intensive Care Unit. J Perinatol. 2018 May;38(5):567-573. DOI: 10.1038/s41372-017-0019-1 [code: zenodo.1040301]

Strouss L, **Goldstein ND**, Locke R, Paul DA. Vascular placental pathology and the relationship between hypertensive disorders of pregnancy and neonatal outcomes in very low birth weight infants. J Perinatol. 2018 Apr;38(4):324-331. DOI: 10.1038/s41372-017-0032-4 [code: zenodo.1041778]

Goldstein ND, Kenaley KM, Locke R, Paul DA. The Joint Effects of Antenatal Steroids and Gestational Age on Improved Outcomes in Neonates. Matern Child Health J. 2018 Mar;22(3):384-390. DOI: 10.1007/s10995-017-2403-z [code: zenodo.1117070]

Goldstein ND. Commentary: Towards open source epidemiology. Epidemiology. 2018 Mar;29(2):161-164. DOI: 10.1097/EDE.0000000000000782

LeVasseur MT, **Goldstein ND**, Tabb LP, Olivieri-Mui BL, 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. J Acquir Immune Defic Syndr. 2018 Jan 1;77(1):31-40. DOI: 10.1097/QAI.0000000000001555 [code: zenodo.846313]

Washio Y, Martin C, **Goldstein ND**, Terplan M. Characteristics of Pregnant Women Who Reported Alcohol Use at Admission to Substance Use Treatment. J Subst Abuse Treat. 2017 Nov;82:82-86. DOI: 10.1016/j.jsat.2017.09.010

Goldstein ND, Eppes SC, Mackley A, Tuttle D, Paul DA. A network model of hand hygiene: How good is good enough to stop the spread of MRSA? Infect Control Hosp Epidemiol. 2017 Jun 28:1-8. DOI: 10.1017/ice.2017.116 [code: zenodo.821632]

Goldstein ND, Newbern EC, Tabb LP, Welles SL. Density of Day Cares in Relation to Reported Pertussis Incidence in Philadelphia. Public Health. 2017 May;146:126-133. DOI: 10.1016/j.puhe.2017.01.015 [code: zenodo.844112]

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Goldstein ND, Sarwate AD. Privacy, security and the epidemiologist in the era of electronic health record research. Online J Public Health Inform. 2016 Dec 28;8(3):e207. DOI: 10.5210/ojphi.v8i3.7251

Goldstein ND, Burstyn I, Welles SL. Bayesian approaches to racial disparities in HIV risk estimation among men who have sex with men. Epidemiology. 2017 Mar;28(2):215-220. DOI: 10.1097/EDE.0000000000000582 [code: zenodo.844100]

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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. DOI: 10.1093/aje/kwv273 [code: zenodo.844110]

Goldstein ND, Eppes SC, Ingraham BC, Paul DA. Characteristics of late-onset sepsis in the NICU: Does occupancy impact risk of infection? J Perinatol. 2016 Sep;36(9):753-7. DOI: 10.1038/jp.2016.71 [code: zenodo.800737]

Goldstein ND, Rogers S, Ehrenthal DB. The impact of psychosocial stressors on postpartum weight retention. Arch Womens Ment Health. 2016 Aug;19(4):691-4. DOI: 10.1007/s00737-016-0613-9 [code: zenodo.800739]

Goldstein ND, Burstyn I, LeVasseur MT, Welles SL. Drug use among men by sexual behavior, 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 [code: zenodo.844104]

Goldstein ND, LeVasseur MT, Purtle J. Is this thing on? Getting the public to listen to the pro-vaccine message. Vaccine. 2016 Jan 12. pii: S0264-410X(16)00020-7. DOI: 10.1016/j.vaccine.2015.12.070

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. Epidemiology. 2015 Sep;26(5):637-44. DOI: 10.1097/EDE.0000000000000328 [code: zenodo.844102]

Goldstein ND, Newbern EC, Evans AA, Drezner K, Welles SL. Choice of measure of vaccination and estimates of risk of pediatric pertussis. Vaccine. 2015 Jul 31;33(32):3970-5. DOI: 10.1016/j.vaccine.2015.06.033 [code: zenodo.844108]

Goldstein ND. Working with census geographies in R. Epidemiology. 2015 Mar;26(2):e22-3. DOI: 10.1097/EDE.0000000000000252 [code: zenodo.583160]

Ehrenthal DB, Rogers S, **Goldstein ND**, Edwards DG, Weintraub WS. Cardiovascular Risk Factors One Year After a Hypertensive Disorder of Pregnancy. J Womens Health (Larchmt). 2015 Jan;24(1):23-9. DOI: 10.1089/jwh.2014.4811

Ehrenthal DB, **Goldstein ND**, Wu P, Rogers S, Townsend RR, Edwards DG. Arterial Stiffness and Wave Reflection 1 Year After a Pregnancy Complicated by Hypertension. J Clin Hypertens (Greenwich). 2014 Oct;16(10):695-9. DOI: 10.1111/jch.12398

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Goldstein ND, Tager-Flusberg H, Lee BK. Mapping Collaboration Networks in the World of Autism Research. Autism Res. 2015 Feb;8(1):1-8. DOI: 10.1002/aur.1393 [code: zenodo.844114]

Goldstein ND, Auchincloss AH, Lee BK. A no-cost geocoding strategy using R. Epidemiology. 2014 Mar;25(2):311-3. DOI: 10.1097/EDE.0000000000000052 [code: zenodo.583158]

Goldstein ND, Maiese BA. A brief review of vaccination coverage in immunization registries. Online J Public Health Inform. 2011;3(1). DOI: 10.5210/ojphi.v3i1.3385

LAY-AUDIENCE ARTICLES

The Pandemic Will End, but We're Probably Stuck with the Coronavirus. Drexel News Blog. Apr 22, 2021.

Mailed HPV tests increase cervical cancer screening (editorial). Healio. Nov 6, 2019.

Fewer than 40% of adults support mandatory HPV vaccination (editorial). Healio. Jul 18, 2019.

Diseases like Zika and Ebola know no party affiliation…but public health responses do. Philadelphia Inquirer. Jun 6, 2016.

Get a flu vaccine – for everyone's sake. Philadelphia Inquirer. Dec 3, 2015.

SELECT SCIENTIFIC ABSTRACTS

Goldstein ND, Burstyn I. Imputing Population HIV Viral Load Through Single-center Clinic Electronic Health Records. Providence/Boston CFAR Symposium on Statistics and Data Science at Brown University. Providence, RI. 2023.

Goldstein ND, Tran NK, Welles SL. Geolocation to recruit an area-specific online sample of HIV-negative MSM. American College of Epidemiology Annual Meeting. Scottsdale, AZ. 2022.

Goldstein ND, Tran NK. Bibliometrics for epidemiologists: Assessing the early COVID-19 pandemic through preprints. American College of Epidemiology Annual Meeting. Scottsdale, AZ. 2022.

Goldstein ND, Quick H, Burstyn I. Double adjustment in case ascertainment and uncertainty about date of infection in COVID-19 time series surveillance data. Society for Epidemiologic Research Annual Meeting. Virtual. 2021.

Goldstein ND, Webster JL, Welles SL. Use of Neighborhood Infection Prevalence to Identify Disparities of COVID-19 and HIV Co-occurrence in Philadelphia, Pennsylvania. Society for Epidemiologic Research Annual Meeting. Virtual. 2021.

Goldstein ND, Kahal D, Testa K, Burstyn I. Catchment and selection bias in an outpatient electronic medical record study of community deprivation and chronic Hepatitis C virus infection. Society for Epidemiologic Research Annual Meeting. Virtual. 2020.

Goldstein ND, Kahal D, Testa K, Burstyn I. Accuracy of chronic Hepatitis C diagnosis in the electronic medical record: implications for bias correction approaches. Society for Epidemiologic Research Annual Meeting. Virtual. 2020.

Goldstein ND, Wheeler DC, Gustafson P, Burstyn I. Improving Spatial Estimates for COVID-19 using Surveillance Data in Philadelphia. American College of Epidemiology Annual Meeting. Virtual. 2020.

Goldstein ND, Palumbo A, Bellamy S, Purtle J, Locke R. Association Between State and Local Government Expenditures and Infant Mortality. American College of Epidemiology Annual Meeting. Virtual. 2020.

Goldstein ND. Increased incidence of vaccine-preventable diseases may lead to state legislation that limits childhood vaccination exemption. American Public Health Association Annual Meeting & Expo. Philadelphia, PA. 2019.

Goldstein ND, Suder JS. Trends in Proposed and Enacted State Legislation Affecting Childhood Vaccination Exemption, 2011-2017. American College of Epidemiology Annual Meeting. Cincinnati, OH. 2018.

Goldstein ND, Jenness SM, Paul DA, Eppes SC. Using agent-based network models to evaluate an MRSA surveillance program in the neonatal intensive care unit. Society for Epidemiologic Research Annual Meeting. Baltimore, MD. 2018.

Goldstein ND, Eppes SC, Moore GH, Tuttle DJ, Gardner J, Paul DA. Decrease in antibiotic utilization after implementation of quality improvement program in the NICU. Pediatric Academic Societies Annual Meeting. Toronto, Canada. 2018.

Goldstein ND, LeVasseur MT, Eppes SC. Scaling up HPV vaccination among high-risk men who have sex with men: a comparison of prevention paradigms. American Public Health Association Annual Meeting & Expo. Atlanta, GA. 2017.

Goldstein ND, LeVasseur MT, Eppes SC. Impact of vaccination on oral HPV transmission among high-risk men who have sex with men. American Public Health Association Annual Meeting & Expo. Atlanta, GA. 2017.

Goldstein ND, Eppes SC, Mackley A, Tuttle D, Paul DA. A network model of hand hygiene: How good is good enough to stop the spread of MRSA? Society for Epidemiologic Research Annual Meeting. Seattle, WA. 2017.

Goldstein ND, Tuttle D, Tabb LP, Paul DA, Eppes SC. Spatial and Environmental Correlates of Organism Colonization and Infection in the Neonatal Intensive Care Unit. Society for Epidemiologic Research Annual Meeting. Seattle, WA. 2017.

Goldstein ND, Locke RG, Paul DA. The relationship between antenatal steroids and poor outcomes in neonates: mediation or effect modification? Epidemiology Congress of the Americas. Miami, FL. 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.

Goldstein ND, Eppes S, Ingraham BC, Paul DA. Characteristics of Late-Onset Sepsis in the NICU: Does a High Census Impact Risk of Infection? Pediatric Academic Societies Annual Meeting. Baltimore, MD. 2016.

Goldstein ND, Eppes S, Ingraham BC, Paul DA. Characteristics of late-onset sepsis in the NICU: Does an increased census impact risk of infection? Northeast Regional Institutional Development Award (IDeA) Conference. Bar Harbor, ME. 2015.

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.

SELECT INVITED TALKS and PANELS

Panelist, Virulent: The Vaccine War - Movie Screening and Q and A. The College of Physicians of Philadelphia. Philadelphia, PA. October 2023.

CSTE Data Analytics Showcase Series: Reimagining Data with R. Council of State and Territorial Epidemiologists. Virtual. January 2023.

Modeling the neonatal intensive care unit to mitigate infectious disease transmission. Department Seminar. Wake Forest University School of Medicine. Winston-Salem, NC. November 2022.

Modeling the neonatal intensive care unit to mitigate infectious disease transmission. Clinical Futures Seminar. Children's Hospital of Philadelphia. Philadelphia, PA. October 2022.

CDUHR K Award panel - Constructing and Securing an NIH K Award. New York University. Virtual. June 2022.

Meet the Authors. Association of Schools and Programs of Public Health Annual Meeting. Virtual. March 2021.

On Taking COVID-19 Surveillance Data at Face Value and Approaches for Obtaining Improved Estimates. EPI/BIO Seminars Series. Drexel University Dornsife School of Public Health Department of Epidemiology & Biostatistics. Virtual. August 2020.

Modeling the healthcare environment to understand disease transmission. University of Connecticut School of Medicine. Virtual. March 2020.

Epidemiology, Disease Prevention, and Policy: Lessons from the Neonatal Intensive Care Unit. Department Seminar. Temple University College of Public Health Department of Epidemiology and Biostatistics. Philadelphia, PA. November 2019.

Because we don't always have observed data. EPI/BIO Seminars Series. Drexel University Dornsife School of Public Health Department of Epidemiology & Biostatistics. Philadelphia, PA. January 2019.

Informing hospital infection prevention through epidemiology: Examples from the neonatal intensive care unit. Department Seminar. Rutgers School of Public Health Department of Biostatistics & Epidemiology. New Brunswick, NJ. November 2018.

Informing hospital infection prevention through epidemiology: Examples from the neonatal intensive care unit. Department Seminar. Boston University School of Public Health Department of Epidemiology. Boston, MA. October 2018.

Using Social Network Analysis to Understand MRSA Transmission in the NICU. Pediatric Grand Rounds. Christiana Care Health System. Newark, DE. August 2018.

How your healthcare provider influences risk for disease. Taste of Science. Philadelphia, PA. April 2018.

Evaluating newer disease control interventions prior to widespread adoption. Frontier Science Seminar. Boston, MA. April 2018.

Evaluating newer disease control interventions prior to widespread adoption. Christiana Care Health System HIV Program. Wilmington, DE. December 2017.

Bringing Classical Epidemiology to the Hospital: Social and Spatial Correlates of Infection. EPI/BIO Seminars Series. Drexel University Dornsife School of Public Health Department of Epidemiology & Biostatistics. Philadelphia, PA. December 2017.

Approaches to measurement error and misclassification in infectious disease epidemiology. Division of Infectious Diseases Grand Rounds. NYU Langone Health. New York, NY. September 2017.

Extrinsic Factors of Organism Colonization & Infection in the Neonatal ICU. Epidemiology Seminar Series. NYU School of Medicine Department of Population Health. New York, NY. July 2017.

Bringing Classical Epidemiology to the Hospital: Social and Spatial Correlates of Infection. Next in Science: Epidemiology. Radcliffe Institute for Advanced Study at Harvard University. Cambridge, MA. May 2017.

Social and spatial correlates of infection in the neonatal ICU. Pediatric Grand Rounds. Christiana Care Health System. Newark, DE. April 2017.

Clinical epidemiology. Neonatology Fellows Research lecture series. Christiana Care Health System. Newark, DE. December 2016.

How to present a journal club and read the scientific literature. Neonatology Fellows Research lecture series. Thomas Jefferson University Hospital. Philadelphia, PA. September 2016.

Misclassification of sensitive health information. Value Institute Scholars seminar. Christiana Care Health System. Newark, DE. August 2016.

Research methodology: analysis. Department of Obstetrics and Gynecology. Christiana Care Health System. Newark, DE. March 2016.

Research methodology: study design and bias. Department of Obstetrics and Gynecology. Christiana Care Health System. Newark, DE. February 2016.

Where do I get my data? Resident Research Training Program. Christiana Care Health System. Newark, DE. January 2016.

REDCap: What is it and how can I use it for epidemiology? Drexel University Dornsife School of Public Health Department of Epidemiology & Biostatistics. Philadelphia, PA. January 2016.

Assembling and Analyzing Cohorts from Electronic Health Records: An Example from the NICU. Innovative Discovery Series talk. Christiana Care Health System. Newark, DE. January 2016.

ACTIVITIES
SOCIETIES
      Member, Society for Epidemiologic Research: 2015 –
      Member, American College of Epidemiology: 2015 –
      Member, International Society for Infectious Diseases: 2016 –

SERVICE
      Journal Peer Review
      American Journal of Epidemiology, American Journal of Obstetrics and Gynecology, American Journal of Preventive Medicine, American Journal of Public Health, Annals of Epidemiology, Archives of Women's Mental Health, BMC Health Services Research, BMC Infectious Diseases, BMC Medical Informatics and Decision Making, BMC Medical Research Methodology, BMC Pediatrics, BMC Psychiatry, Clinical Infectious Diseases,

Epidemiology, Harvard Data Science Review, International Journal of Environmental Research and Public Health, International Journal of Epidemiology, JAMA Network Open, Journal of Perinatology, Journal of Public Health Management & Practice, Journal of the Royal Society Interface, LGBT Health, New England Journal of Medicine, Open Forum Infectious Diseases, Pathogens and Global Health, Pediatric Research, PLOS One, PLOS Computational Biology, Public Health, Science Advances, Scientific Reports, Sexually Transmitted Diseases, Social Psychiatry and Psychiatric Epidemiology, The Lancet HIV, Vaccine

Abstract Peer Review

American College of Epidemiology Annual Meeting, American Public Health Association Annual Meeting & Expo, Epidemiology Congress of the Americas, Society for Epidemiologic Research Annual Meeting

Book Proposal Review

Springer Nature

Grant Review

Thomas Jefferson University / Drexel University SKCC Cancer Consortium Pilot Grant: 2022

NIH NIAID Special Emphasis Panel: RESPOND: Epidemiology to End the HIV Epidemic (RESPOND: EEE): 2022

NIH Infectious Disease, Reproductive Health, and Asthma/Pulmonary Conditions (IRAP) Study Section: Infectious Disease Epidemiology: 2020

Conferences and Meetings

Symposium Co-chair, Methodological gymnastics in electronic health record research. Society for Epidemiologic Research Annual Meeting: 2024

Poster Judge, Drexel University College of Medicine Discovery Day: 2022, 2023

Meeting Co-chair, Intersecting pandemics: COVID-19 + health disparities. Society for Epidemiologic Research Mid-year Meeting: 2022

Mentor, DSPH Case Competition. Drexel University: 2022, 2023

Symposium Chair, Beyond face value: Surveillance data during COVID-19. Society for Epidemiologic Research Annual Meeting: 2021

Poster Judge, Society for Epidemiologic Research Annual Meeting: 2020, 2021, 2023

Symposium Chair, Open Epidemiology, Data Transparency and Reproducibility: An egg that can't be unbroken. Society for Epidemiologic Research Annual Meeting: 2019

Mentor, Jefferson Health Hack. Thomas Jefferson University: 2018

Committees and Working Groups

Chair, Clinical Epidemiology Working Group. Drexel University Dornsife School of Public Health: 2022 –

Member, Epidemiology Graduate Program Committee. Drexel University Dornsife School of Public Health: 2022 –

Member, Junior Faculty Research Award Selection Committee. Drexel University Dornsife School of Public Health: 2022

Member, Philadelphia Epi/Bios Collaborative: 2021 –

Member, Epidemiology Doctoral Comprehensive Exam Writing Committee. Drexel University Dornsife School of Public Health: 2019 –
Co-chair, Infection and Public Health Working Group. Drexel University Dornsife School of Public Health: 2018 – 2019

Editorial
Senior Associate Editor, Annals of LGBTQ Public and Population Health: 2020 – 2022
Guest Editor, Delaware Journal of Public Health, Communicable Disease Issue: 2019
Associate Editor, Clinfowiki (http://www.clinfowiki.org): 2006 –
Blogger (http://www.goldsteinepi.com/blog): 2014 –