

WAKE FOREST UNIVERSITY SCHOOL OF MEDICINE
Curriculum Vitae

NAME David M. Kline, Ph.D.

ACADEMIC TITLE: Associate Professor (with tenure)
Department of Biostatistics and Data Science

Vice Chair
Department of Biostatistics and Data Science

ADDRESS Department of Biostatistics and Data Science
Division of Public Health Sciences
Wake Forest University School of Medicine
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EDUCATION

2010	Messiah College Grantham, Pennsylvania B.A. Mathematics
2012	The Ohio State University Columbus, Ohio M.S. Statistics
2015	The Ohio State University Columbus, Ohio Ph.D. Biostatistics

Research Advisors: Rebecca Andridge, Ph.D. and Eloise Kaizar, Ph.D.
Thesis: Systematically missing subject-level data in longitudinal research synthesis

EMPLOYMENT

Academic Appointments

College of Public Health, The Ohio State University

2017 – 2019	Adjunct Assistant Professor, Division of Biostatistics
2019 – 2021	Assistant Professor (courtesy), Division of Biostatistics

College of Medicine, The Ohio State University

2018 – 2021	Assistant Professor (tenure track), Department of Biomedical Informatics, Center for Biostatistics
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Wake Forest University School of Medicine

2021 – 2024	Assistant Professor (tenure track), Department of Biostatistics and Data Science, Division of Public Health Sciences
2021 – 2025	Full Member, Maya Angelou Center for Health Equity

2021 – present	Full Member, Center for Addiction Research
2022 – 2024	Assistant Professor (secondary), Department of Epidemiology and Prevention, Division of Public Health Sciences
2024 – present	Associate Professor (with tenure), Department of Biostatistics and Data Science, Division of Public Health Sciences
2024 – present	Associate Professor (secondary), Department of Epidemiology and Prevention, Division of Public Health Sciences

Wake Forest University

2022 – present	Affiliate Faculty, Department of Statistical Sciences
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Professional Experience

2008	Actuarial Intern, Glatfelter's Insurance Group, York, Pennsylvania
2009 – 2010	Statistical Analyst Intern, Division of Biostatistics and Bioinformatics, Pennsylvania State University College of Medicine, Hershey, Pennsylvania
2009 – 2010	Teaching Assistant, Department of Mathematics, Messiah College, Grantham, Pennsylvania
2011 – 2012	Teaching Assistant, Department of Statistics, The Ohio State University, Columbus, Ohio
2012	Student Associate, Fisher College of Business, The Ohio State University, Columbus, Ohio
2013 – 2014	Teaching Assistant, Division of Biostatistics, The Ohio State University, Columbus, Ohio
2013 – 2015	Research Assistant, Division of Biostatistics, The Ohio State University, Columbus, Ohio
2015 – 2018	Research Scientist, Center for Biostatistics, The Ohio State University, Columbus, Ohio

ADMINISTRATIVE SERVICE

Departmental Service

The Ohio State University

2015 - 2019	Member, Fellowship Scholarly Oversight Committee, Nationwide Children's Hospital Division of Emergency Medicine
2019 – 2021	Member, Graduate Studies Coordinating Committee, The Ohio State University Department of Biomedical Informatics
2019 – 2021	Chair, Student Engagement Committee, The Ohio State University Department of Biomedical Informatics
2020 – 2021	Member, BMI Leadership Council, The Ohio State University Department of Biomedical Informatics

Wake Forest University School of Medicine

2021 – 2022	Member, Faculty Recruitment Committee, Wake Forest University School of Medicine Department of Biostatistics and Data Science
2021 – 2023	Member, Twitter Committee, Wake Forest University School of Medicine, Department of Biostatistics and Data Science
2022 – present	Member, Seminar Organizing Committee, Wake Forest University School of Medicine, Department of Biostatistics and Data Science
2022 – 2023	Member, Faculty Recruitment Committee, Wake Forest University School of Medicine, Department of Epidemiology and Prevention
2023 – 2024	Member, Executive Committee, Wake Forest University School of Medicine, Department of Biostatistics and Data Science

- 2023 – 2024 Chair, Faculty Recruitment Committee, Wake Forest University School of Medicine Department of Biostatistics and Data Science
2024 – 2025 Interim Vice Chair, Wake Forest University School of Medicine Department of Biostatistics and Data Science
2025 – present Vice Chair, Wake Forest University School of Medicine Department of Biostatistics and Data Science

Institutional Service

- The Ohio State University
2016 - 2021 Member, Clinical Scientific Review Committee, The Ohio State University Comprehensive Cancer Center

Wake Forest University School of Medicine

- 2022 – 2023 Member, Faculty Representative Council Communications Subcommittee
2024 – 2025 Member, Department of Biostatistics and Data Science Chair Search Committee

EXTRAMURAL APPOINTMENTS AND SERVICE

Funding Agency Reviewer

- NIH-NIEHS: Special Emphasis Panel Member, "Powering Research through Innovative Methods for mixtures in Epidemiology (PRIME)", July 13, 2017
NIH: Population and Public Health Approaches to HIV/AIDS (PPAH) Study Section (Ad hoc Member, November 15-16, 2021)
Wake Forest CTSI BERD: Reviewer, "Statistical/Novel Methods Pilot Award", May 6, 2022
NIH-NIDA: Special Emphasis Panel Member, "HEAL Initiative: Understanding polysubstance use and improving service delivery to address polysubstance use", June 22, 2022
NIH: Population and Public Health Approaches to HIV/AIDS (PPAH) Study Section (Ad hoc Member, July 13-14, 2023)
Wake Forest CTSI BERD: Reviewer, KL2 Program, June 3, 2024
NIH: Population and Public Health Approaches to HIV/AIDS (PPAH) Study Section (Member, July 1, 2024 – June 30, 2028)

Editorial Boards

- 2022 – present Editorial Board Member, *Epidemiology*

Peer Reviewer

- PLOS One*
Biometrical Journal
Journal of Educational and Behavioral Statistics
Statistical Methods in Medical Research
Developmental Cognitive Neuroscience
Epidemiology
Clinical Pharmacology & Therapeutics
BMC Medical Research Methodology
CPT: Pharmacometrics & Systems Pharmacology
Journal of the American Statistical Association
Journal of Neurotrauma
Annals of Applied Statistics
Paediatric & Perinatal Epidemiology
Health Services and Outcomes Research Methodology
Drug and Alcohol Dependence

Journal of Survey Statistics and Methodology
STAT
International Journal of Drug Policy
Journal of Substance Abuse Treatment
American Journal of Epidemiology
Medical Education Online
Statistics in Biopharmaceutical Research
PLOS Computational Biology
Biometrics
Statistics in Medicine

Book Reviewer

Chapman & Hall/CRC, Taylor Francis Group

Technical Report Reviewer

Spatial Analysis Report. Demographic and Health Surveys Program, United States Agency for International Development (USAID), 2021

Advisory Boards

Member, Scientific Advisory Committee, Great Lakes Node of the Pediatric Emergency Care Applied Research Network (PECARN), 2019 - 2020
Invited participant, Data Needs in Opioid Systems Modeling: An HHS Interagency Collaboration, United States Food and Drug Administration, April 29, 2019
Member, COVID-19 Comprehensive Monitoring Team, Ohio Department of Health, 2020 – 2021
Invited participant, Incorporating Intervention Effectiveness in Opioid Systems Modeling: An HHS Interagency Collaboration, Duke-Margolis Center for Health Policy and United States Food and Drug Administration, October 20-22, 2020
Member, Board of Directors, Florence Nightingale Day for Statistics and Data Science, 2021 – Present
Invited participant, Opioid Overdose Modeling Discussion with NIDA, National Institute on Drug Abuse, May 1, 2024
Invited participant, 2024 NC Opioid Research Convening, North Carolina Institute of Medicine and North Carolina Association of County Commissioners, July 19, 2024

Data and Safety Monitoring Boards

Executive Secretary, CAMELLIA Cohort: A longitudinal study to understand sexual health and prevention among women in Alabama (Elopre L, Matthews L, MPIs; R01HD110097). University of Alabama at Birmingham, 2023 - Present

Workshops and Symposia

Invited participant, Junior Biostatisticians in Health Research Workshop, ENAR, March 13, 2019
Invited participant, Data Science Innovation Lab Challenges in Rural Health and Environmental Exposures, NIH BD2K Training Coordinating Center, June 24-28, 2019
Invited participant, Challenges in Mathematical and Computational Modeling of Complex Systems, Banff International Research Station for Mathematical Innovation and Discovery, December 1-6, 2019
Member, Planning Committee, The Ohio State-Cleveland Clinic-Case Western Reserve Biostatistics Symposium, April 23, 2021
Member, Organizing Committee, Emerging Methods in Translational Science: Contemporary Challenges in Prediction Modeling, 2022 CTSI Methods Conference, November 18, 2022
Member, Organizing Committee, Florence Nightingale Day at Wake Forest, April 22, 2023
Judge, Wake Forest DataFest, American Statistical Association, April 7, 2024

Member, Organizing Committee, Florence Nightingale Day at Wake Forest, April 20, 2024
Judge, Wake Forest DataFest, American Statistical Association, April 6, 2025

PROFESSIONAL MEMBERSHIPS AND SERVICE

Memberships

2007 – present Member, American Statistical Association
2014 – present Member, International Biometric Society Eastern North American Region (ENAR)
2018 – 2021 Member, The Ohio Academy of Science
2018 – present Member, International Society for Bayesian Analysis

Leadership Roles

2018 Reviewer, Pediatric Emergency Medicine Clinical Research Committee Concepts for Multicenter Research, American Academy of Pediatrics
2019 Member, Program Committee, IEEE International Conference on Bioinformatics and Biomedicine
2019 – 2021 Member, Florence Nightingale Day Committee, Caucus for Women in Statistics and American Statistical Association
2021 – 2022 Member, HPSS Mentorship Studio Planning Committee, American Statistical Association Health Policy Statistics Section
2021 – 2023 Member, ENAR Regional Advisory Board, International Biometric Society Eastern North American Region (ENAR)

Conference Activities

2018 Co-organizer and Chair, "Statistics and informatics: Stronger together," ENAR Spring Meeting
2019 Chair, "Joint modeling of longitudinal and survival data," Joint Statistical Meetings
2020 Organizer, "Leveraging existing data on the opioid epidemic to quantify risk and inform policy," International Conference on Health Policy Statistics
2020 Chair, "Advances in resource allocation for epidemic control: Estimation, optimization, and counterfactuals," Joint Statistical Meetings
2020 Moderator, "Climate and public health," Byrd Center Symposium on Climate Change
2021 Poster Session Judge, The Ohio State University College of Medicine Trainee Research Day
2021 Chair, "Dynamic treatment regimes," ENAR Spring Meeting
2022 Chair, "Statistical Learning for Decision Support," Joint Statistical Meetings
2023 Poster Competition Judge, ENAR Poster Competition, ENAR Spring Meeting
2024 Member, ENAR Distinguished Student Paper Award Committee, ENAR Spring Meeting
2024 Poster Competition Judge, ENAR Poster Competition, ENAR Spring Meeting
2024 Chair, "Translational Research and Science," ENAR Spring Meeting

HONORS AND AWARDS

2006 Honors Program, Messiah College
2008 Sigma Zeta National Science and Mathematics Honor Society, Messiah College
2010 Who's Who Among Students in American Universities and Colleges
2010 Mathematics Department Honors, Messiah College
2010 The Honor Society of Phi Kappa Phi, The Ohio State University
2010 Lubrizol Fellowship, The Ohio State University Department of Statistics
2010 University Fellowship, The Ohio State University
2014 Lester R. Curtin Award, American Statistical Association

2015	Conference on Statistical Practice Best Student Poster Award Runner-up, American Statistical Association
2020	Excellence in Teaching Award, The Ohio State University Department of Biomedical Informatics
2022	Public Health Sciences Top 10 Research Papers, Wake Forest University School of Medicine Division of Public Health Sciences
2023	Public Health Sciences Top 10 Research Papers, Wake Forest University School of Medicine Division of Public Health Sciences
2024	Emerging Leader Award, Wake Forest University School of Medicine
2025	Winston Under 40 Leadership Award, Greater Winston-Salem Inc. and Winston Under 40 Young Professionals Program

GRANT FUNDING

Currently Active Grants

2R01DA052214 (Kline D (contact PI), Hepler S, MPIs, 25%) Spatio-temporal methods for surveillance of the opioid syndemic Accurate small area estimates of opioid misuse are critical to inform a public health response; enable data-driven distribution of resources; and optimize placement of health services for treatment and prevention of HIV, HCV, and opioid use disorder. This project develops biostatistics and data science methodology to provide small area estimates of opioid misuse by accounting for imperfect detection and misclassification in existing surveillance data sources and by the novel integration of surveillance data and electronic health record data. Role: MPI and Contact PI	09/01/2025 – 08/30/2029 \$458,542/year direct cost
U24DA057612 (Adams M, PI; Kline D , Consultant, 5%) WF DISC: Navigating Data Solutions for Chronic Pain and Opioid Use Disorder The objective of this proposal is to navigate the expected and unexpected data challenges for the HD2A network, encompassing the Innovation projects to identify tools, provide data support, and deliver training assistance. Role: Consultant	10/01/2022 – 09/30/2027 \$999,998/year direct cost
2R01CA231139 (Hrywna M, Kong A, MPIs; Kline D , Co-I, 10%) Evaluating implementation of Tobacco 21 laws in the U.S. This study will examine how tobacco product types, retailer characteristics, and neighborhood-level factors, contribute to T21 implementation in a longitudinal sample of tobacco retailers in New Jersey, North Carolina, and Nevada, the first state to require electronic ID verification for tobacco product purchases. Role: Co-I	01/15/2025 – 12/31/2029 \$553,171/year direct cost
IRG-22-157-01-IRG (Duchesneau E, Valdez A, MPIs; Kline D , Co-I, 0%) Multilevel factors associated with dental care treatment delays in head and neck cancer patients Our project will investigate the role of recommended dental consultations and procedures in delaying radiation therapy for HNC patients. We will measure the length of radiation therapy delays that are attributed to pre-radiation dental care, identify patient, neighborhood, and provider factors that contribute to these delays, and estimate the association between these delays and adverse outcomes. Role: Co-I	01/20/2025 – 1/19/2026 \$50,000/year direct cost
R01DA063269 (Lancaster K, Egan K, MPIs; Kline D , Co-I, 15%) Integrated HIV and Overdose Prevention in Pharmacies: Assessing Availability, Disparities, and Implementation	07/01/2025 – 03/31/2030 \$470,616/year direct cost

Strategies in Different Policy Environments (HIP-Pharm)

Pharmacies can serve as frontline harm reduction spaces due to their ubiquity, accessibility to medication and services, and rapid scalability. Yet, the availability and strategies for scaling lifesaving HIV and overdose prevention resources within pharmacies to reach people who inject drugs are unknown. This study will assess the dynamic availability of integrated HIV and overdose prevention services, guide state and organizational policies to improve equitable access, and co-design practical strategies to overcome access barriers.

Role: Co-I

1R61DA064042 (Lancaster K, PI; **Kline D**, Co-I, 11%)

Hybrid Trial of Peer-Delivered Affect Regulation and Contingency Management to Optimize HIV Prevention for Women Who Inject Drugs in the South (SHE CARES)

08/01/2025 – 07/31/2027

\$400,999/year direct cost

Stimulant use and HIV continue to be rising health concerns among women who inject drugs (WWID), yet equitable access to effective interventions remains limited. We will codesign a peer-delivered intervention focused on contingency management and positive affect to reduce stimulant use and HIV risk among WWID, followed by a trial to assess its effectiveness and implementation. By centering on WWID's experiences, this study seeks to transform HIV prevention and stimulant use reduction strategies for women at risk.

Role: Co-I

1U01DA063177 (Meade C, Lancaster K, MPIs; **Kline D**, Co-I, 20%)

CASCADE: An equity-driven cohort to address the cascading effects of the HIV and substance use syndemic in North Carolina

09/01/2025 – 07/31/2030

\$1,833,508/year direct cost

The South continues to bear the greatest burden of HIV in the United States, driven by intersectional factors that contribute to persistent health disparities. These disparities are particularly wide amongst people who use drugs (PWUD) like stimulants and opioids, resulting in low uptake of evidence-based HIV prevention and treatment services. This study applies an observational-implementation hybrid approach to understanding the multilevel determinants that impact substance use and HIV outcomes, with the goal of improving equitable delivery of services for PWUD.

Role: Co-I

Pending Grants

1RM1DA064594 (Springer S, Corbin J, **Kline D**, McGovern M, Gonsalves G, MPIs, 20%)

GEO IMPACT: Geo-Targeted Implementation of a novel Mobile

12/01/2025 – 11/30/2030

Pharmacy and Clinic healthcare delivery model with Community

\$1,300,720/year direct cost

HeAlt Workers for prevention, Care and Treatment of HIV and substance use

The goal is to develop a learning public health system to increase reach and access to care for persons who use drugs who are living with or at risk for HIV. We will do so using a combination of innovative modeling techniques to optimize service delivery, the elimination of barriers through use of a Mobile Pharmacy Clinic, and cutting edge implementation science techniques to iteratively improve service delivery and outcomes.

Role: MPI and Site PI

Past Grant History

R21DA045236, A Bayesian spatio-temporal approach for estimating county-level opioid misuse rates in Ohio (**Kline D** (contact PI), Hepler S, MPIs) 09/15/2018 - 08/31/2021 (\$200,678/year direct cost)

1R01DA052214, Spatio-temporal methods for surveillance of the opioid syndemic (**Kline D** (contact PI), Hepler S, MPIs) 09/01/2021 – 06/30/2025 (\$317,347/year direct cost)

R03HD080033, Statistical methods to support a model pediatric traumatic brain injury data bank (Kaizar E, PI; **Kline D**, Graduate Student) 09/26/2014 – 08/31/2015 (\$48,750/year direct cost)

- K23AG038351, Expanding antimicrobial stewardship for long term care facility patients:
Implementation in novel clinical settings using information technology (Caterino J, PI; **Kline D**, Biostatistician) 11/01/2015 – 05/01/2016 (\$142,438/year direct cost)
- R01AT004454, Mental practice in chronic, stroke-induced hemiparesis (Page S, PI; **Kline D**, Biostatistician) 01/01/2016 – 12/31/2016 (\$583,214/year direct cost)
- UL1TR001070, The Ohio State University Center for Clinical and Translational Science (Jackson R, PI; **Kline D**, Biostatistician) 07/01/2016 – 05/31/2018 (\$3,476,347/year direct cost)
- R01NR015676, Wound healing and endpoint recurrence (Sen C, PI; **Kline D**, Biostatistician) 02/01/2017 – 11/31/2018 (\$335,526/year direct cost)
- Cure SMA/Families of SMA, Determine the motor unit response following SMN restoration in late onset spinal muscular atrophy (Elsheikh B, PI; **Kline D**, Biostatistician) 03/01/2018 – 02/28/2020 (\$75,000/year total cost)
- UM1DA049417, Optimizing HEALing in Ohio communities (Jackson R, PI; **Kline D**, Co-I) 04/17/2019 – 03/31/2020 (\$17,092,395/year direct cost)
- Biogen US-SPN-17-11216, Characterizing longitudinal outcomes in adults with SMA treated with Nusinersen (Elsheikh B, PI; **Kline D**, Biostatistician) 11/01/2018 – 10/31/2020 (\$125,000/year total cost)
- Michael J. Fox Foundation 16197, Use of a computerized walking device in the home to improve home and community mobility in people (Kloos A, Kegelmeyer D, MPIs; **Kline D**, Co-I) 01/01/2019 – 02/28/2021 (\$100,576/year direct cost)
- Ohio Department of Health Contract, COVID monitoring team, economic analysis, and Ohio COVID-19 assessment of prevalence (OCAP) (Seiber E, PI; **Kline D**, Co-I) 05/01/2020 – 05/31/2021 (\$619,444/year direct cost)
- R01DC017846, Neural encoding and auditory processing of electrical stimulation in pediatric cochlear implant users (He S, PI; **Kline D**, Co-I) 04/01/2019 – 06/30/2021 (\$280,041/year direct cost)
- R01AA026664, Aggression and SEIP: Neural correlates during alcohol intoxication (Coccaro E, King A, MPI; **Kline D**, Co-I) 09/01/2020 – 06/30/2021 (\$433,494/year direct cost)
- F30DA050423, Buprenorphine, Hepatitis C virus and their relationship in rural U.S. populations (Brook D, PI; **Kline D**, Sponsor) 04/01/2020 – 03/31/2024 (\$39,877/year direct cost)
- F31DA054752, The effect of opioids, stimulants, and the simultaneous use of both on hepatitis C virus (HCV) cascade of care in rural communities in the United States (Estadt A, PI; **Kline D**, Sponsor) 11/03/2022 – 10/31/2024 (\$40,594/year direct cost)
- LANL LA-UR-22-23216, Assessing environmental and health impacts of airborne particulates (Kaufeld K, PI; **Kline D**, Co-I and Site PI) 10/01/2021 – 09/30/2024 (\$325,000/year direct cost)
- R01HS027200, GeoHAI: A novel geographic tool for Hospital Acquired Infection visualization and assessment (Hebert C, Root E, MPIs; **Kline D**, Co-I and Site PI) 09/01/2020 – 08/31/2024 (\$343,934/year direct cost)
- R01NR019512, Harnessing the power of peer navigation and mHealth to reduce health disparities in Appalachia (Rhodes S, Tanner A, MPIs; **Kline D**, Co-I) 08/01/2021 – 05/31/2025 (\$334,448/year direct cost)
- UL1TR001420, Wake Forest Clinical and Translational Science Award (McClain D, PI; **Kline D**, biostatistician) 07/01/2022 – 08/30/2025 (\$2,534,162/year direct cost)
- The Duke Endowment, Assessment of a postpartum, remote blood pressure monitoring intervention for reduction in disparities in hypertensive-associated readmissions and health costs (Jensen E, PI; **Kline D**, Co-I) 01/01/2023 – 08/30/2025 (\$200,000/year direct cost)
- The Duke Endowment, Evaluation of a health system integrated model for postpartum education and support in rural populations – NEST Rural (Stamilio D, Jensen E, MPIs; **Kline D**, Co-I) 01/01/2024 – 08/30/2025 (\$343,017/year direct cost)

INSTITUTIONAL FUNDING

- Wake Forest University School of Medicine Clinical and Translational Sciences Institute (CTSI) (20%), Biostatistics, Epidemiology and Research Design (BERD), 07/06/2021 – 07/01/2022
- ORASTEM: Multicenter Study on the Burden of Illness of Oral Side Effects from Conditioning Therapy Before Stem Cell Transplant in Patients Diagnosed with Cancer (2.5%), 01/01/2022 – 12/31/2025

BIBLIOGRAPHY

Note: * indicates a student or fellow, † indicates co-first author

Peer-Reviewed Publications as Author

1. Seibert SM, King TS, **Kline D**, Mende C, Craig T. Reliability of skin test results when read at different time points. *Allergy and Asthma Proceedings*. 2011;32(3):203-205. doi:10.2500/aap.2011.32.3436. PubMed PMID: 21703100.
2. Carpenter A, Paulus A, Robinson M, Bates CM, Robinson ML, Hains D, **Kline D**, McHugh KM. 3-dimensional morphometric analysis of murine bladder development and dysmorphogenesis. *Developmental Dynamics*. 2012;241(3):522-533. doi:10.1002/dvdy.23744. PubMed PMID: 22275180; PubMed Central PMCID: PMC3288201.
3. Wang H, Schwaderer AL, Kline J, Spencer JD, **Kline D**, Hains DS. Contribution of Structural Domains to the Activity of Ribonuclease 7 against Uropathogenic Bacteria. *Antimicrobial Agents and Chemotherapy*. 2013;57(2):766-774. doi:10.1128/AAC.01378-12. PubMed PMID: 23183439; PubMed Central PMCID: PMC3553692.
4. **Kline D**, Andridge R, Kaizar E. Comparing multiple imputation methods for systematically missing subject-level data. *Research Synthesis Methods*. 2017;8(2):136-148. doi:10.1002/jrsm.1192. PubMed PMID: 26679326.
5. McKnight ER, Bonny AE, Lange HLH, **Kline DM**, Abdel-Rasoul M, Gay JR, Matson SC. Statewide opioid prescriptions and the prevalence of adolescent opioid misuse in Ohio. *The American Journal of Drug and Alcohol Abuse*. 2017;43(3):299-305. doi:10.1080/00952990.2016.1216999. PubMed PMID: 27646841; PubMed Central PMCID: PMC5357590.
6. Caterino JM, Leininger R, **Kline DM**, Southerland LT, Khaliqdina S, Baugh CW, Pallin DJ, Stevenson KB. Accuracy of Current Diagnostic Criteria for Acute Bacterial Infection in Older Adults in the Emergency Department. *Journal of the American Geriatrics Society*. 2017;65(8):1802-1809. doi:10.1111/jgs.14912. PubMed PMID: 28440855; PubMed Central PMCID: PMC5555798.
7. Arnold WD, **Kline D**, Sanderson A, Hawash AA, Bartlett A, Novak KR, Rich MM, Kissel JT. Open-label trial of ranolazine for the treatment of myotonia congenita. *Neurology*. 2017;89(7):710-713. doi:10.1212/WNL.0000000000004229. PubMed PMID: 28710329; PubMed Central PMCID: PMC5562961.
8. Vaughn JL, **Kline D**, Denlinger NM, Andritsos LA, Exline MC, Walker AR. Predictive performance of early warning scores in acute leukemia patients receiving induction chemotherapy. *Leukemia & Lymphoma*. 2018;59(6):1498-1500. doi:10.1080/10428194.2017.1376744. PubMed PMID: 28901797; PubMed Central PMCID: PMC7132216.
9. Prior DE, Nurre E, Roller SL, **Kline D**, Panara R, Stino AM, Davis JA, Freimer ML, Arnold WD. Infections and the relationship to treatment in neuromuscular autoimmunity. *Muscle & Nerve*. 2018;57(6):927-931. doi:10.1002/mus.26032. PubMed PMID: 29211921; PubMed Central PMCID: PMC5951723.
10. Makki N, **Kline DM**, Kanmanthareddy A, Mathelier H, Shreenivas S, Lilly SM. Procedure utilization, latency and mortality: Weekend versus Weekday admission for Myocardial Infarction. *Journal of Cardiology and Cardiovascular Medicine*. 2017;2(1):020-025. doi:10.29328/journal.jccm.1001008.
11. Mundy-Bosse B, Denlinger N, McLaughlin E, Chakravarti N, Hwang S, Chen L, Mao HC, **Kline D**, Youssef Y, Kohnken R, Lee DA, Lozanski G, Freud AG, Porcu P, William B, Caligiuri MA, Mishra A. Highly cytotoxic natural killer cells are associated with poor prognosis in patients with cutaneous T-cell lymphoma. *Blood Advances*. 2018;2(15):1818-1827. doi:10.1182/bloodadvances.2018020388. PubMed PMID: 30054309; PubMed Central PMCID: PMC6093742.
12. Kelly KM, Borstad AL, **Kline D**, Gauthier LV. Improved quality of life following constraint-induced movement therapy is associated with gains in arm use, but not motor improvement. *Topics in Stroke Rehabilitation*. 2018;25(7):467-474. doi:10.1080/10749357.2018.1481605. PubMed PMID: 30246613; PubMed Central PMCID: PMC6359892.
13. Caterino JM, **Kline DM**, Leininger R, Southerland LT, Carpenter CR, Baugh CW, Pallin DJ, Hunold KM, Stevenson KB. Nonspecific Symptoms Lack Diagnostic Accuracy for Infection in Older Patients in the Emergency Department. *Journal of the American Geriatrics Society*. 2019;67(3):484-492. doi:10.1111/jgs.15679. PubMed PMID: 30467825; PubMed Central PMCID: PMC6403002.
14. Stino AM, Atway S, Anthony M, **Kline D**, Kissel JT. Foot measures in patients with pes cavus with and without charcot–marie–tooth disease: A pilot study. *Muscle & Nerve*. 2019;59(1):122-125.

- doi:10.1002/mus.26309. PubMed PMID: 30039580.
- 15. Lorusso S, **Kline D**, Bartlett A, Freimer M, Agresti J, Hawash AA, Rich MM, Kissel JT, Arnold WD. Open-label trial of ranolazine for the treatment of paramyotonia congenita. *Muscle & Nerve*. 2019;59(2):240-243. doi:10.1002/mus.26372. PubMed PMID: 30390395; PubMed Central PMCID: PMC6340713.
 - 16. Wier CG, Crum AE, Reynolds AB, Iyer CC, Chugh D, Paletta MS, Heilman PL, **Kline DM**, Arnold WD, Kolb SJ. Muscle contractility dysfunction precedes loss of motor unit connectivity in SOD1(G93A) mice. *Muscle & Nerve*. 2019;59(2):254-262. doi:10.1002/mus.26365. PubMed PMID: 30370671; PubMed Central PMCID: PMC6340745.
 - 17. Echouffo-Tcheugui JB, Zhao S, Brock G, Matsouaka RA, **Kline D**, Joseph JJ. Visit-to-Visit Glycemic Variability and Risks of Cardiovascular Events and All-Cause Mortality: The ALLHAT Study. *Diabetes Care*. 2019;42(3):486-493. doi:10.2337/dc18-1430. PubMed PMID: 30659073; PubMed Central PMCID: PMC6463548.
 - 18. Grisanti K, Martorano L, Redmond M, Scherzer R, Strothman K, Malthaner L, Davis J, Zhao S, **Kline D**, Leonard JC. Emergency Call Characteristics and EMS Dispatcher Protocol Adherence for Possible Anaphylaxis. *Prehospital Emergency Care*. 2019;23(5):691-699. doi:10.1080/10903127.2018.1557305. PubMed PMID: 30526221.
 - 19. Yackey K, Stukus K, Cohen D, **Kline D**, Zhao S, Stanley R. Off-label Medication Prescribing Patterns in Pediatrics: An Update. *Hospital Pediatrics*. 2019;9(3):186-193. doi:10.1542/hpeds.2018-0168. PubMed PMID: 30745323.
 - 20. Bressler CJ*, Letson MM, **Kline D**, McCarthy T, Davis J, Leonard JC. Characteristics of Neighborhoods Where Emergency Medical Services Encounter Children at Risk for Maltreatment. *Prehospital Emergency Care*. 2019;23(5):672-682. doi:10.1080/10903127.2019.1573940. PubMed PMID: 30703337.
 - 21. Wang H, Hecht S, **Kline D**, Leber AL. Staphylococcus aureus and methicillin resistance detection directly from pediatric samples using PCR assays with differential cycle threshold values for corroboration of methicillin resistance. *Journal of Microbiological Methods*. 2019;159:167-173. doi:10.1016/j.mimet.2019.01.009. PubMed PMID: 30826439.
 - 22. **Kline D**, Hepler S, Bonny A, McKnight E. A joint spatial model of opioid-associated deaths and treatment admissions in Ohio. *Annals of Epidemiology*. 2019;33:19-23. doi:10.1016/j.annepidem.2019.02.004. PubMed PMID: 30948153; PubMed Central PMCID: PMC6502680.
 - 23. Kloos AD, Kegelmeyer DA, Ambrogi K, **Kline D**, McCormack-Mager M, Schroeder B, Kostyk SK. The Step Test Evaluation of Performance on Stairs (STEPS): Validation and reliability in a neurological disorder. *PLOS ONE*. 2019;14(3):e0213698. doi:10.1371/journal.pone.0213698. PubMed PMID: 30897107; PubMed Central PMCID: PMC6428278.
 - 24. Suarez-Kelly LP, Yu L, **Kline D**, Schneider EB, Agnese DM, Carson WE. Increased breast cancer risk in women with neurofibromatosis type 1: a meta-analysis and systematic review of the literature. *Heredity Cancer in Clinical Practice*. 2019;17(1):12. doi:10.1186/s13053-019-0110-z. PubMed PMID: 30962859; PubMed Central PMCID: PMC6434896.
 - 25. La Count S, Lovett ME, Zhao S, **Kline D**, O'Brien NF, Hall MW, Sribnick EA. Factors Associated With Poor Outcome in Pediatric Near-Hanging Injuries. *Journal of Emergency Medicine*. 2019;57(1):21-28. doi:10.1016/j.jemermed.2019.03.013. PubMed PMID: 31031070.
 - 26. Kesireddy V, Tan Y, **Kline D**, Brock G, Odei JB, Kluwe B, Effoe VS, Echouffo Tcheugui JB, Kalyani RR, Sims M, Taylor HA, Mongraw-Chaffin M, Akhabue E, Joseph JJ. The Association of Life's Simple 7 with Aldosterone among African Americans in the Jackson Heart Study. *Nutrients*. 2019;11(5):955. doi:10.3390/nu11050955. PubMed PMID: 31035479; PubMed Central PMCID: PMC6566676.
 - 27. Hepler S, McKnight E, Bonny A, **Kline D**. A Latent Spatial Factor Approach for Synthesizing Opioid-Associated Deaths and Treatment Admissions in Ohio Counties. *Epidemiology*. 2019;30(3):365-370. doi:10.1097/EDE.0000000000000978. PubMed PMID: 30882402.
 - 28. Gillespie SL, Anderson CM, Zhao S, Tan Y, **Kline D**, Brock G, Odei J, O'Brien E, Sims M, Lazarus SA, Hood DB, Williams KP, Joseph JJ. Allostatic load in the association of depressive symptoms with incident coronary heart disease: The Jackson Heart Study. *Psychoneuroendocrinology*. 2019;109:104369. doi:10.1016/j.psyneuen.2019.06.020. PubMed PMID: 31307010; PubMed Central PMCID: PMC7232849.
 - 29. Liu A*, **Kline DM**, Brock GN, Bonsu BK. Multistate model of the patient flow process in the pediatric emergency department. *PLOS ONE*. 2019;14(7):e0219514. doi:10.1371/journal.pone.0219514. PubMed PMID: 31291345; PubMed Central PMCID: PMC6619791.
 - 30. Young NA, Brown MP, Peng J, **Kline D**, Reider C, Deogaonkar M. Predicting extended hospital stay after deep brain stimulation surgery in Parkinson's patients. *Journal of Clinical Neuroscience*. 2019;69:241-244. doi:10.1016/j.jocn.2019.07.042. PubMed PMID: 31431404.

31. Saba K, Hossieny ZS, Arnold WD, Elsheikh B, Palettas M, **Kline D**, Stino AM. CSF Protein Level and Short-Term Prognosis in Guillain–Barré Syndrome. *Journal of Clinical Neuromuscular Disease*. 2019;21(2):118-119. doi:10.1097/CND.0000000000000259. PubMed PMID: 31743257.
32. Karamians R, Proffitt R, **Kline D**, Gauthier LV. Effectiveness of Virtual Reality- and Gaming-Based Interventions for Upper Extremity Rehabilitation Poststroke: A Meta-analysis. *Archives of Physical Medicine and Rehabilitation*. 2020;101(5):885-896. doi:10.1016/j.apmr.2019.10.195. PMID: 31821799.
33. Battisti KA*, Cohen DM, Bourgeois T, **Kline D**, Zhao S, Iyer MS. A Paucity of Code Status Documentation Despite Increasing Complex Chronic Disease in Pediatrics. *Journal of Palliative Medicine*. 2020;23(11):1452-1459. doi:10.1089/jpm.2019.0630. PubMed PMID: 32213109.
34. **Kline D**, Hepler SA. Estimating the burden of the opioid epidemic for adults and adolescents in Ohio counties. *Biometrics*. 2021;77(2):765-775. doi:10.1111/biom.13295. PubMed PMID: 32413155; PubMed Central PMCID: PMC7666653.
35. Meyer AP, Roggenbuck J, LoRusso S, Kissel J, Smith RM, **Kline D**, Arnold WD. Genotype-Phenotype Correlations and Characterization of Medication Use in Inherited Myotonic Disorders. *Frontiers in Neurology*. 2020;11: 593. doi:10.3389/fneur.2020.00593. PubMed PMID: 32670189; PubMed Central PMCID: PMC7332828.
36. Dias JP, Joseph JJ, Kluwe B, Zhao S, Shardell M, Seeman T, Needham BL, Wand GS, **Kline D**, Brock G, Castro-Diehl C, Golden SH. The longitudinal association of changes in diurnal cortisol features with fasting glucose: MESA. *Psychoneuroendocrinology*. 2020;119:104698. doi:10.1016/j.psyneuen.2020.104698. PubMed PMID: 32674946; PubMed Central PMCID: PMC8046490.
37. Moberly AC, Vasil K, Baxter J, Klamer B, **Kline D**, Ray C. Comprehensive auditory rehabilitation in adults receiving cochlear implants: A pilot study. *Laryngoscope Investigative Otolaryngology*. 2020;5(5):911-918. doi:10.1002/lio2.442. PubMed PMID: 33134539; PubMed Central PMCID: PMC7585234.
38. Kluwe B, Ortiz R, Odei JB, Zhao S, **Kline D**, Brock G, Echouffo-Tcheugui JB, Lee JM, Lazarus S, Seeman T, Greenland P, Needham B, Carnethon MR, Golden SH, Joseph JJ. The association of cortisol curve features with incident diabetes among whites and African Americans: The CARDIA study. *Psychoneuroendocrinology*. 2021;123:105041. doi:10.1016/j.psyneuen.2020.105041. PubMed PMID: 33227536; PubMed Central PMCID: PMC8046489.
39. **Kline D**, Ji Y, Hepler S. A multivariate spatio-temporal model of the opioid epidemic in Ohio: a factor model approach. *Health Serv Outcomes Res Method*. 2021;21(1):42-53. doi:10.1007/s10742-020-00227-3. PubMed PMID: 34305443; PubMed Central PMCID: PMC8300591.
40. Kluwe B, Zhao S, **Kline D**, Ortiz R, Brock G, Echouffo-Tcheugui JB, Sims M, Kalyani RR, Golden SH, Joseph JJ. Adiposity Measures and Morning Serum Cortisol in African Americans: Jackson Heart Study. *Obesity*. 2021;29(2):418-427. doi:10.1002/oby.23056. PubMed PMID: 33491313; PubMed Central PMCID: PMC9017492.
41. Joseph JJ, Pohlman NK, Zhao S, **Kline D**, Brock G, Echouffo-Tcheugui JB, Sims M, Effoe VS, Wu WC, Kalyani RR, Wand GS, Kluwe B, Hsueh WA, Abdalla M, Shimbo D, Golden SH. Association of Serum Aldosterone and Plasma Renin Activity With Ambulatory Blood Pressure in African Americans: The Jackson Heart Study. *Circulation*. 2021;143(24):2355-2366. doi:10.1161/CIRCULATIONAHA.120.050896. PubMed PMID: 33605160; PubMed Central PMCID: PMC8789344.
42. **Kline D**, Pan Y*, Hepler SA. Spatiotemporal Trends in Opioid Overdose Deaths by Race for Counties in Ohio. *Epidemiology*. 2021;32(2):295-302. doi:10.1097/EDE.0000000000001299. PubMed PMID: 33394810; PubMed Central PMCID: PMC9040314.
43. Elsheikh B, Severyn S, Zhao S, **Kline D**, Linsenmayer M, Kelly K, Tellez M, Bartlett A, Heintzman S, Reynolds J, Sterling G, Weaver T, Rajneesh K, Kolb SJ, Arnold WD. Safety, Tolerability, and Effect of Nusinersen in Non-ambulatory Adults With Spinal Muscular Atrophy. *Front Neurol*. 2021;12:650532. doi:10.3389/fneur.2021.650532. PubMed PMID: 33935949; PubMed Central PMCID: PMC8085528.
44. Schoenfeld L, Janse S, **Kline D**, Aronow ME, Singh AD, Craven C, Abdel-Rahman M, Cebulla CM. Estrogen Receptor Is Expressed in Uveal Melanoma: A Potential Target for Therapy. *OOP*. 2021;7(4):303-310. doi:10.1159/000512174. PubMed PMID: 34604204; PubMed Central PMCID: PMC8443923.
45. Brook DL*, Hetrick AT*, Chettri SR, Schalkoff CA, Sibley AL, Lancaster KE, Go VF, Miller WC, **Kline DM**. The Relationship Between Hepatitis C Virus Rates and Office-Based Buprenorphine Access in Ohio. *Open Forum Infectious Diseases*. 2021;8(6):ofab242. doi:10.1093/ofid/ofab242. PubMed PMID: 34159217; PubMed Central PMCID: PMC8214012.
46. Elsheikh B, Severyn S, Zhao S, **Kline D**, Linsenmayer M, Kelly K, Tellez M, Bartlett A, Heintzman S,

- Reynolds J, Sterling G, Weaver T, Rajneesh K, Kolb SJ, Arnold WD. Safety, Tolerability, and Effect of Nusinersen Treatment in Ambulatory Adults With 5q-SMA. *Front Neurol.* 2021;12:650535. doi:10.3389/fneur.2021.650535. PubMed PMID: 34093395; PubMed Central PMCID: PMC8174580.
47. Sotos-Prieto M, Zhao S, **Kline D**, Brock G, Gooding H, Mattei J, Rodriguez-Artalejo F, Min YI, Rimm EB, Tucker KL, Joseph JJ. Application of a Lifestyle-Based Score to Predict Cardiovascular Risk in African Americans: The Jackson Heart Study. *Journal of Clinical Medicine.* 2021;10(11):2252. doi:10.3390/jcm10112252. PubMed PMID: 34067473; PubMed Central PMCID: PMC8196953.
48. Gonsalves GS, Copple JT, Paltiel AD, Fenichel EP, Bayham J, Abraham M, **Kline D**, Malloy S, Rayo MF, Zhang N, Faulkner D, Morey DA, Wu F, Thornhill T, Illoglu S, Warren JL. Maximizing the Efficiency of Active Case Finding for SARS-CoV-2 Using Bandit Algorithms. *Med Decis Making.* 2021;41(8):970-977. doi:10.1177/0272989X211021603. PubMed PMID: 34120510; PubMed Central PMCID: PMC8484027.
49. **Kline D**, Li Z, Chu Y, Wakefield J, Miller WC, Turner AN, Clark SJ. Estimating seroprevalence of SARS-CoV-2 in Ohio: A Bayesian multilevel poststratification approach with multiple diagnostic tests. *Proceedings of the National Academy of Sciences.* 2021;118(26):e2023947118. doi:10.1073/pnas.2023947118. PubMed PMID: 34172581; PubMed Central PMCID: PMC8255994.
50. Hill EB*, Watson JR, Cohen DM, **Kline D**, Schwaderer AL, Spencer JD. Novel urine biomarkers to distinguish UTI from culture-negative pyuria. *Pediatr Nephrol.* 2022;37(2):385-391. doi:10.1007/s00467-021-05202-9. PubMed PMID: 34272611.
51. Arnold WD, Severyn S, Zhao S, **Kline D**, Linsenmayer M, Kelly K, Tellez M, Bartlett A, Heintzman S, Reynolds J, Sterling G, Weaver T, Rajneesh K, Burghes AHM, Kolb SJ, Elsheikh B. Persistent neuromuscular junction transmission defects in adults with spinal muscular atrophy treated with nusinersen. *BMJ Neurology Open.* 2021;3(2):e000164. doi:10.1136/bmjno-2021-000164. PubMed PMID: 34466806; PubMed Central PMCID: PMC8362737.
52. Hepler SA, Waller LA, **Kline DM**. A multivariate spatiotemporal change-point model of opioid overdose deaths in Ohio. *The Annals of Applied Statistics.* 2021;15(3):1329-1342. doi:10.1214/20-AOAS1415. PubMed PMID: 34721750; PubMed Central PMCID: PMC8553088.
53. Joseph JJ, Kluwe B, Echouffo-Tcheugui JB, Zhao S, Brock G, **Kline D**, Odei JB, Kalyani RR, Bradley DP, Hsueh WA, Sims M, Golden SH. Association of Adiposity With Incident Diabetes Among Black Adults in the Jackson Heart Study. *Journal of the American Heart Association.* 2021;10(18):e020716. doi:10.1161/JAHA.120.020716. PubMed PMID: 34493073; PubMed Central PMCID: PMC8649535.
54. Donneyong MM, Fischer MA, Langston MA, Joseph JJ, Juarez PD, Zhang P, **Kline DM**. Examining the Drivers of Racial/Ethnic Disparities in Non-Adherence to Antihypertensive Medications and Mortality Due to Heart Disease and Stroke: A County-Level Analysis. *International Journal of Environmental Research and Public Health.* 2021;18(23):12702. doi:10.3390/ijerph182312702. PubMed PMID: 34886429; PubMed Central PMCID: PMC8657217.
55. Turner AN, **Kline D**, Norris A, Phillips WG, Root E, Wakefield J, Li Z, Lemeshow S, Spahnje M, Luff A, Chu Y, Francis MK, Gallo M, Chakraborty P*, Lindstrom M, Lozanski G, Miller W, Clark S. Prevalence of current and past COVID-19 in Ohio adults. *Annals of Epidemiology.* 2022;67:50-60. doi:10.1016/j.annepidem.2021.11.009. PubMed PMID: 34921991; PubMed Central PMCID: PMC9759827.
56. Linakis SW*, Lloyd JK, **Kline D**, Holmes JF, Stanley RM, Leonard JC. Field triage of children with abdominal trauma. *Trauma.* 2021;23(1):55-63. doi:10.1177/1460408620933524.
57. Jamieson N*, Akande M, Karsies T, Smith RM, **Kline D**, Spencer SP. Respiratory Pathogen Detection in Pediatric Patients Intubated for Presumed Infection. *Pediatric Emergency Care.* 2022;38(1):e398. doi:10.1097/PEC.0000000000002301. PubMed PMID: 33201137.
58. Coccaro EF, Drossos T, **Kline D**, Lazarus S, Joseph JJ, de Groot M. Diabetes distress, emotional regulation, HbA1c in people with diabetes and A controlled pilot study of an emotion-focused behavioral therapy intervention in adults with type 2 diabetes. *Primary Care Diabetes.* 2022;16(3):381-386. doi:10.1016/j.pcd.2022.03.002. PubMed PMID: 35288059; PubMed Central PMCID: PMC9133204.
59. Townsend T†, **Kline D†**, Rivera-Aguirre A, Bunting AM, Mauro PM, Marshall BDL, Martins SS, Cerdá M. Racial/Ethnic and Geographic Trends in Combined Stimulant/Opioid Overdoses, 2007–2019. *American Journal of Epidemiology.* 2022;191(4):599-612. doi:10.1093/aje/kwab290. PubMed PMID: 35142341; PubMed Central PMCID: PMC9077116.
60. Hepler SA, Kaufeld KA, Benedict K, Toda M, Jackson BR, Liu X, **Kline D**. Integrating Public Health Surveillance and Environmental Data to Model Presence of Histoplasma in the United States. *Epidemiology.* 2022;33(5):654-659. doi:10.1097/EDE.0000000000001499. PubMed PMID: 35545229; PubMed Central PMCID: PMC9345522.

61. Kline D, Hyder A, Liu E, Rayo M, Malloy S, Root E. A Bayesian Spatiotemporal Nowcasting Model for Public Health Decision-Making and Surveillance. *American Journal of Epidemiology*. 2022;191(6):1107-1115. doi:10.1093/aje/kwac034. PubMed PMID: 35225333.
62. Shrodes JC, Williams A, Nolan TS, Radabaugh JN, Braun A, Kline D, Zhao S, Brock G, Garner JA, Spees CK, Joseph JJ. Feasibility of Cooking Matters for Diabetes: A 6-week Randomized, Controlled Cooking and Diabetes Self-Management Education Intervention. *Journal of the Academy of Nutrition and Dietetics*. 2023;123(3):492-503.e5. doi:10.1016/j.jand.2022.07.020. PubMed PMID: 35944873; PubMed Central PMCID: PMC10909744.
63. Williams A, Shrodes JC, Radabaugh JN, Braun A, Kline D, Zhao S, Brock G, Nolan TS, Garner JA, Spees CK, Joseph JJ. Outcomes of Cooking Matters for Diabetes: A 6-week Randomized, Controlled Cooking and Diabetes Self-Management Education Intervention. *Journal of the Academy of Nutrition and Dietetics*. 2023;123(3):477-491. doi:10.1016/j.jand.2022.07.021. PubMed PMID: 35961614; PubMed Central PMCID: PMC10862535.
64. Moore T, Kline D, Palettas M, Bodine T. Fall Prevention With the Smart Socks System Reduces Hospital Fall Rates. *Journal of Nursing Care Quality*. 2023;38(1):55-60. doi:10.1097/NCQ.0000000000000653. PubMed PMID: 35984693.
65. Williams A, Zhao S, Brock G, Kline D, Echouffo-Tcheugui JB, Effoe VS, Bertoni AG, Michos ED, Boer IH de, Kestenbaum B, Golden SH, Joseph JJ. Vitamin D, parathyroid hormone, glucose metabolism and incident diabetes in the multiethnic study of atherosclerosis. *BMJ Open Diabetes Research and Care*. 2022;10(5):e002931. doi:10.1136/bmjdrc-2022-002931. PubMed PMID: 36162866; PubMed Central PMCID: PMC9516211.
66. Townsend TN, Hamilton LK, Rivera-Aguirre A, Davis CS, Pamplin JR II, Kline D, Rudolph KE, Cerdá M. Use of an Inverted Synthetic Control Method to Estimate Effects of Recent Drug Overdose Good Samaritan Laws, Overall and by Black/White Race/Ethnicity. *American Journal of Epidemiology*. 2022;191(10):1783-1791. doi:10.1093/aje/kwac122. PubMed PMID: 35872589; PubMed Central PMCID: PMC9989361.
67. Joseph JJ, Rajwani A, Roper D, Zhao S, Kline D, Odei J, Brock G, Echouffo-Tcheugui JB, Kalyani RR, Bertoni AG, Effoe VS, Sims M, Wu WC, Wand GS, Golden SH. Associations of Cardiometabolic Multimorbidity With All-Cause and Coronary Heart Disease Mortality Among Black Adults in the Jackson Heart Study. *JAMA Network Open*. 2022;5(10):e2238361. doi:10.1001/jamanetworkopen.2022.38361. PubMed PMID: 36282500; PubMed Central PMCID: PMC9597394.
68. Bressler CJ*, Malthaner L, Pondel N*, Letson MM, Kline D, Leonard JC. Identifying Children at Risk for Maltreatment Using Emergency Medical Services' Data: An Exploratory Study. *Child Maltreat*. 2024;29(1):37-46. doi:10.1177/10775595221127925. PubMed PMID: 36205182.
69. Hu J, Kline DM, Tan A, Zhao S, Brock G, Mion LC, Efird JT, Wang D, Sims M, Wu B, Mongraw-Chaffin M, Joseph JJ. Association Between Social Determinants of Health and Glycemic Control Among African American People with Type 2 diabetes: The Jackson Heart Study. *Annals of Behavioral Medicine*. 2022;56(12):1300-1311. doi:10.1093/abm/kaac026. PubMed PMID: 36197118; PubMed Central PMCID: PMC9672347.
70. Ortiz R, Zhao S, Kline DM, Brock G, Carroll JE, Seeman TE, Jaffee SR, Berger JS, Golden SH, Carnethon MR, Joseph JJ. Childhood environment early life stress, caregiver warmth, and associations with the cortisol diurnal curve in adulthood: The coronary artery risk development in young adults (CARDIA) study. *Psychoneuroendocrinology*. 2023;149:106008. doi:10.1016/j.psyneuen.2022.106008. PubMed PMID: 36599226; PubMed Central PMCID: PMC10029914.
71. Hepler SA†, Kline DM†, Bonny A, McKnight E, Waller LA. An integrated abundance model for estimating county-level prevalence of opioid misuse in Ohio. *Journal of the Royal Statistical Society Series A: Statistics in Society*. 2023;186(1):43-60. doi:10.1093/rsssa/qnac013. PubMed PMID: 37261313; PubMed Central PMCID: PMC10227692.
72. Kesireddy V, Kluwe B, Pohlman N, Zhao S, Tan Y, Kline D, Brock G, Odei JB, Effoe VS, Echouffo-Tcheugui JB, Kalyani RR, Sims M, Taylor HA, Mongraw-Chaffin M, Akhabue E, Joseph JJ. The role of aldosterone and ideal cardiovascular health in incident diabetes: The Jackson Heart Study. *American Journal of Preventive Cardiology*. 2023;13:100466. doi:10.1016/j.ajpc.2023.100466. PubMed PMID: 36798725; PubMed Central PMCID: PMC9926093.
73. Carmichael SP*, Kline DM, Mowery NT, Miller PR, Meredith JW, Hanchate AD. Geographic Variation in Operative Management of Adhesive Small Bowel Obstruction. *Journal of Surgical Research*. 2023;286:57-64. doi:10.1016/j.jss.2022.12.040. PubMed PMID: 36753950; PubMed Central PMCID: PMC10034859.

74. McKnight ER, Dong Q, Brook DL*, Hepler SA, **Kline DM**, Bonny AE. A Descriptive Study on Opioid Misuse Prevalence and Office-Based Buprenorphine Access in Ohio Prior to the Removal of the Drug Addiction Treatment Act of 2000 Waiver. *Cureus*. 2023;15(3):e36903. doi:10.7759/cureus.36903. PubMed PMID: 37139287; PubMed Central PMCID: PMC10151104.
75. Kluwe B, Pohlman N, Kesireddy V, Zhao S, Tan Y, **Kline D**, Brock G, Odei JB, Effoe VS, Tcheugui JBE, Kalyani RR, Sims M, Taylor HA, Mongraw-Chaffin M, Akhabue E, Joseph JJ. The role of aldosterone and ideal cardiovascular health in incident cardiovascular disease: The Jackson heart study. *American Journal of Preventive Cardiology*. 2023;14:100494. doi:10.1016/j.ajpc.2023.100494. PubMed PMID: 37114212; PubMed Central PMCID: PMC10126856.
76. Lee G, Kluwe B, Zhao S, **Kline D**, Nedungadi D, Brock GN, Odei JB, Kesireddy V, Pohlman N, Sims M, Effoe VS, Wu WC, Kalyani RR, Wand GS, Echouffo-Tcheugui J, Golden SH, Joseph JJ. Adiposity, aldosterone and plasma renin activity among African Americans: The Jackson Heart Study. *Endocrine and Metabolic Science*. 2023;11:100126. doi:10.1016/j.endmts.2023.100126. PubMed PMID: 37475849; PubMed Central PMCID: PMC10358448.
77. Joseph JJ, Kluwe B, Zhao S, **Kline D**, Nedungadi D, Brock G, Hsueh WA, Golden SH. The association of aldosterone and endothelin-1 with incident diabetes among African Americans: The Jackson Heart Study. *Endocrine and Metabolic Science*. 2023;11:100128. doi:10.1016/j.endmts.2023.100128. PubMed PMID: 37475850; PubMed Central PMCID: PMC10358435.
78. **Kline D**, Waller LA, McKnight E, Bonny A, Miller WC, Hepler SA. A Dynamic Spatial Factor Model to Describe the Opioid Syndemic in Ohio. *Epidemiology*. 2023;34(4):487-494. doi:10.1097/EDE.0000000000001617. PubMed PMID: 37155617; PubMed Central PMCID: PMC10591492.
79. Belany P, Kackley ML, Zhao S, Kluwe B, Buga A, Crabtree CD, Nedungadi D, **Kline D**, Brock G, Simonetti OP, Volek JS, Joseph JJ. Effects of Hypocaloric Low-Fat, Ketogenic, and Ketogenic and Ketone Supplement Diets on Aldosterone and Renin. *The Journal of Clinical Endocrinology & Metabolism*. 2023;108(7):1727-1739. doi:10.1210/clinem/dgad009. PubMed PMID: 36629058; PubMed Central PMCID: PMC10271230
80. Kwon J, **Kline DM**, Hepler SA. A spatio-temporal hierarchical model to account for temporal misalignment in American Community Survey explanatory variables. *Spatial and Spatio-temporal Epidemiology*. 2023;46:100593. doi:10.1016/j.sste.2023.100593. PubMed PMID: 37500228; PubMed Central PMCID: PMC10389670.
81. Dong Q, **Kline D**, Hepler SA. A Bayesian Spatio-temporal Model to Optimize Allocation of Buprenorphine in North Carolina. *Statistics and Public Policy*. 2023;10(1):2218448. doi:10.1080/2330443X.2023.2218448. PubMed PMID: 37545670; PubMed Central PMCID: PMC10398789.
82. Rayo MF, Faulkner D*, **Kline D**, Lv TT, Malloy S, Vella DD, Morey DA, Zhang N, Gonsalves G. Using Bandit Algorithms to Maximize SARS-CoV-2 Case-Finding: Evaluation and Feasibility Study. *JMIR Public Health and Surveillance*. 2023;9(1):e39754. doi:10.2196/39754. PubMed PMID: 37581924; PubMed Central PMCID: PMC10430782.
83. **Kline D†**, Bunting AM†, Hepler SA, Rivera-Aguirre A, Krawczyk N, Cerdá M. State-Level History of Overdose Deaths Involving Stimulants in the United States, 1999–2020. *Am J Public Health*. 2023;113(9):991-999. doi:10.2105/AJPH.2023.307337. PubMed PMID: 37556789; PubMed Central PMCID: PMC10413741.
84. Wang J*, Doogan N, Thompson K, Bernson D, Feaster D, Villani J, Chandler R, White LF, **Kline D**, Barocas JA. Massachusetts Prevalence of Opioid Use Disorder Estimation Revisited: Comparing a Bayesian Approach to Standard Capture–Recapture Methods. *Epidemiology*. 2023;34(6):841-849. doi:10.1097/EDE.0000000000001653. PubMed PMID: 37757873; PubMed Central PMCID: PMC10544852.
85. Estadt AT*, Miller WC, **Kline D**, Whitney BM, Young AM, Todd Korthuis P, Stopka TJ, Feinberg J, Zule WA, Pho MT, Friedmann PD, Westergaard RP, Eagen KV, Seaman A, Ma J, Go VF, Lancaster KE. Associations of hepatitis C virus (HCV) antibody positivity with opioid, stimulant, and polysubstance injection among people who inject drugs (PWID) in rural U.S. communities. *International Journal of Drug Policy*. 2025;141:104222. doi:10.1016/j.drugpo.2023.104222. PubMed PMID: 37806839; PubMed Central PMCID: PMC10997735
86. Lang K, Atchison TJ, Singh P, **Kline DM**, Odei JB, Martin JL, Smyer JF, Day SR, Hebert CL. Describing the monthly variability of hospital-onset Clostridioides difficile during early coronavirus disease 2019 (COVID-19) using electronic health record data. *Infect Control Hosp Epidemiol*. 2024;45(3):329-334.

- doi:10.1017/ice.2023.171. PubMed PMID: 37807908; PubMed Central PMCID: PMC10933504.
87. Santaella-Tenorio J, Rivera-Aguirre A, Hepler SA, **Kline DM**, Cantor J, DeYoreo M, Martins SS, Krawczyk N, Cerdá M. Rates of Receiving Medication for Opioid Use Disorder and Opioid Overdose Deaths During the Early Synthetic Opioid Crisis: A County-level Analysis. *Epidemiology*. 2025;36(2):186-195. doi:10.1097/EDE.0000000000001816. PubMed PMID: 39774411; PubMed Central PMCID: PMC11785500.
88. Stino AM, Bumma N, Smith R, Davalos L, Allen J, Ye JC, Pianko M, Campagnaro E, Fierro C, Awad A, Murdock B, Pietrzak M, Loszanski G, **Kline DM**, Efebera Y, Elsheikh B. Lenalidomide in the treatment of anti-myelin-associated glycoprotein neuropathy: A phase 1 study to identify the maximum tolerated dose. *European Journal of Neurology*. 2024;31(3):e16164. doi:10.1111/ene.16164. PubMed PMID: 38015467; PubMed Central PMCID: PMC11235859.
89. Joseph JJ, Williams A, Azap RA, Zhao S, Brock G, **Kline D**, Odei JB, Foraker R, Sims M, Brewer LC, Gray DM, Nolan TS. Role of Sex in the Association of Socioeconomic Status With Cardiovascular Health in Black Americans: The Jackson Heart Study. *Journal of the American Heart Association*. 2023;12(23):e030695. doi:10.1161/JAHA.123.030695. PubMed PMID: 38038179; PubMed Central PMCID: PMC10727326.
90. Sucaldito AD, Tanner AE, Mann-Jackson L, Alonso J, Garcia M, Chaffin JW, Faller R, McGuire T, Jibriel M, Mertus S, **Kline DM**, Russell L, Stafford J, Aviles LR, Weil PH, Wilkin AM, Rhodes SD. Exploring Individual and Contextual Factors Associated With Sexual Risk and Substance Use Among Underserved GBQMSM and Transgender and Nonbinary Persons in South Central Appalachia. *AIDS Education and Prevention*. 2023;35(6):495-506. doi:10.1521/aeap.2023.35.6.495. PubMed PMID: 38096454; PubMed Central PMCID: PMC11075819.
91. Estadt AT*, White BN, Ricks JM, Lancaster KE, Hepler S, Miller WC, **Kline D**. The impact of fentanyl on state- and county-level psychostimulant and cocaine overdose death rates by race in Ohio from 2010 to 2020: a time series and spatiotemporal analysis. *Harm Reduction Journal*. 2024;21(1):13. doi:10.1186/s12954-024-00936-9. PubMed PMID: 38233924; PubMed Central PMCID: PMC10792830.
92. Bulthuis MS, Van Leeuwen SJM, Thomas RZ, Van Gennip LLA, Whiteside HM, Isom S, **Kline DM**, Laheij AMGA, Raber-Durlacher JE, Hasséus B, Johansson JE, Hovan AJ, Brennan MT, Von Bültzingslöwen I, Huysmans MCDNM, Blijlevens NMA. Subjective Oral Dryness following Hematopoietic Cell Transplantation: A Report from the Orastem Study. *Transplantation and Cellular Therapy*. 2024;30(4):446.e1-446.e11. doi:10.1016/j.jtct.2024.01.067. PubMed PMID: 38242439.
93. Ortiz R, Kershaw KN, Zhao S, **Kline D**, Brock G, Jaffee S, Golden SH, Ogedegbe G, Carroll J, Seeman TE, Joseph JJ. Evidence for the Association Between Adverse Childhood Family Environment, Child Abuse, and Caregiver Warmth and Cardiovascular Health Across the Lifespan: The Coronary Artery Risk Development in Young Adults (CARDIA) Study. *Circ: Cardiovascular Quality and Outcomes*. 2024;17(2):e009794. doi:10.1161/CIRCOUTCOMES.122.009794. PubMed PMID: 38258561; PubMed Central PMCID: PMC11078262.
94. Kegelmeyer DA, Minarsch R, Kostyk SK, **Kline D**, Smith R, Kloos AD. Use of a Robotic Walking Device for Home and Community Mobility in Parkinson Disease: A Randomized Controlled Trial. *Journal of Neurologic Physical Therapy*. 2024;48(2):102-111. doi:10.1097/NPT.0000000000000467. PubMed PMID: 38441461.
95. Wang J*, Bernson D, Erdman EA, Villani J, Chandler R, **Kline D**, White LF, Barocas JA. Intersectional inequities and longitudinal prevalence estimates of opioid use disorder in Massachusetts 2014–2020: a multi-sample capture-recapture analysis. *The Lancet Regional Health - Americas*. 2024;32:100709. doi:10.1016/j.lana.2024.100709. PubMed PMID: 38510791; PubMed Central PMCID: PMC10951507.
96. Carmichael SP, Chandra PK, Vaughan JW, **Kline DM**, Ip EH, Holcomb JB, Atala A. Prevention of post-operative adhesions: Model development and pilot outcomes of human placental stem cell-based interventions. *Transfusion*. 2024;64(6):1059-1067. doi:10.1111/trf.17859. PubMed PMID: 38693056; PubMed Central PMCID: PMC11211869.
97. Santaella-Tenorio J, Hepler SA, Rivera-Aguirre A, **Kline DM**, Cerdá M. Estimation of the prevalence of opioid misuse in New York State counties, 2007–2018: a Bayesian spatiotemporal abundance model approach. *American Journal of Epidemiology*. 2024;193(7):959-967. doi:10.1093/aje/kwae018. PubMed PMID: 38456752; PubMed Central PMCID: PMC11228848.
98. Carmichael SP, Chandra PK, Vaughan JW, **Kline DM**, Ip EH, Holcomb JB, Atala AJ. A Scoping Review of Animal Models for Development of Abdominal Adhesion Prevention Strategies. *Journal of Surgical Research*. 2024;302:364-375. doi:10.1016/j.jss.2024.06.049. PubMed PMID: 39153357; PubMed Central PMCID: PMC11490394.

99. Hostettler LD, **Kline DM**, Moore JB, Nightingale CL, Miller PR, Nunn AM, Carmichael SP. Evaluation of a Novel Emergency General Surgery Handover: A Prospective Feasibility Study. *Journal of Surgical Research*. 2024;302:715-723. doi:10.1016/j.jss.2024.07.111. PubMed PMID: 39214063; PubMed Central PMCID: PMC11490366.
100. **Kline D**, Hepler SA, Krawczyk N, Rivera-Aguirre A, Waller LA, Cerdá M. A state-level history of opioid overdose deaths in the United States: 1999-2021. *PLOS ONE*. 2024;19(9):e0309938. doi:10.1371/journal.pone.0309938. PubMed PMID: 39240938; PubMed Central PMCID: PMC11379184.
101. Wang J*, **Kline DM**, White LF. On the estimation of population size—A comparison of capture-recapture and multiplier-benchmark methods. *Stat Methods Med Res*. 2024;33(10):1818-1835. doi:10.1177/09622802241275413. PubMed PMID: 39350602; PubMed Central PMCID: PMC11827169.
102. Chakraborty P*, Ning X, McNeill M, **Kline DM**, Shoben AB, Miller WC, Norris Turner A. Analysis of 2019 Ohio Disease Intervention Specialist Records for Syphilis Cases Using Clustering Algorithms. *Sexually Transmitted Diseases*. 2025;52(3):146-153. doi:10.1097/OLQ.0000000000002091. PubMed PMID: 39481010; PubMed Central PMCID: PMC12040071.
103. Estadt AT*, **Kline D**, Miller WC, Feinberg J, Hurt CB, Mixson LS, Friedmann PD, Lowe K, Tsui JI, Young AM, Cooper H, Korthuis PT, Pho MT, Jenkins W, Westergaard RP, Go VF, Brook D, Smith G, Rice DR, Lancaster KE. Differences in hepatitis C virus (HCV) testing and treatment by opioid, stimulant, and polysubstance use among people who use drugs in rural U.S. communities. *Harm Reduct J*. 2024;21(1):214. doi:10.1186/s12954-024-01131-6. PubMed PMID: 39614319; PubMed Central PMCID: PMC11606200.
104. South AM, Giannmattei VC, Bagley KW, Bakhoum CY, Beasley WH, Bily MB, Biswas S, Bridges AM, Byfield RL, Campbell JF, Chanchlani R, Chen A, D'Agostino McGowan L, Downs SM, Fergeson GM, Greenberg JH, Hill-Horowitz TA, Jensen ET, Kallah M, Kamel M, Kiessling SG, **Kline DM**, Laisure JR, Liu G, Londeree J, Lucas CB, Mannemuddhu SS, Mao KR, Misurac JM, Murphy MO, Nugent JT, Onugha EA, Pudupakkam A, Redmond KM, Riar S, Sethna CB, Siddiqui S, Thumann AL, Uss SR, Vincent CL, Viviano IV, Walsh MJ, White BD, Woroniecki RP, Wu M, Yamaguchi I, Yun E, Weaver DJ. The Study of the Epidemiology of Pediatric Hypertension Registry (SUPERHERO): rationale and methods. *American Journal of Epidemiology*. 2024;193(12):1650-1661. doi:10.1093/aje/kwae116. PubMed PMID: 38881045; PubMed Central PMCID: PMC11637526.
105. Carmichael SP, Chandra PK, Vaughan JW, **Kline DM**, Holcomb JB, Atala A. Human placental stem cell-based therapies for prevention of abdominal adhesions: A prospective randomized preclinical trial. *J Trauma Acute Care Surg*. 2025;98(1):78-86. doi:10.1097/TA.0000000000004476. PubMed PMID: 39690463; PubMed Central PMCID: PMC11894456.
106. Murphy E, **Kline D**, Egan KL, Lancaster KE, Miller WC, Waller LA, Hepler SA. Understanding the opioid syndemic in North Carolina: A novel approach to modeling and identifying factors. *Biostatistics*. 2025;26(1):kxae052. doi:10.1093/biostatistics/kxae052. PubMed PMID: 39865701; PubMed Central PMCID: PMC11823283.
107. Rhodes SD, Tanner AE, Alonso J, Mann-Jackson L, Chaffin JW, Garcia M, Erb HJ, Sucaldito AD, Williams Faller RE, Stafford JM, Russell L, Weil PH, Jibriel MSE, McGuire T, Wilkin AM, Aguilar-Palma SK, **Kline DM**. Using ENGAGED for CHANGE to Develop a Multicultural Intervention to Reduce Disparities among Sexual and Gender Minorities in Appalachia. *Progress in Community Health Partnerships: Research, Education, and Action*. 2024;18(4):447-458. doi:10.1353/cpr.2024.a948669. PubMed PMID: 39925276; PubMed Central PMCID: PMC12186249.
108. Hepler SA, Kaufeld KA, **Kline D**, Greene A, Gorris ME. Estimating coccidioidomycosis endemicity while accounting for imperfect detection using spatio-temporal occupancy modeling. *American Journal of Epidemiology*. 2025;194(1):56-63. doi:10.1093/aje/kwae199. PubMed PMID: 39013787.
109. **Kline DM**, White BN, Lancaster KE, Egan KL, Murphy E, Miller WC, Hepler SA. Estimating Prevalence of Opioid Misuse in North Carolina Counties From 2016 to 2021: An Integrated Abundance Model Approach. *Epidemiology*. 2025;36(3):310-318. doi:10.1097/EDE.0000000000001838. PubMed PMID: 39855258; PubMed Central PMCID: PMC11991883.
110. Singh P, Reid E, Smyer J, Martin J, Odei J, Hebert C, **Kline D**. Examining the impact of clinical features and built environment on risk of hospital onset Clostridioides difficile infection. *Infect Control Hosp Epidemiol*. 2025;46(3):249-255. doi:10.1017/ice.2024.239. PubMed PMID: 39880791; PubMed Central PMCID: PMC11883654.
111. Chakraborty P*, Ning X, McNeill M, **Kline DM**, Shoben AB, Miller WC, Turner AN. Using Natural Language Processing Methods to Predict Topics Included in 2019 Ohio Syphilis Disease Intervention Specialist Records. *Sexual Trans Dis*. 2025;52(6):356-363. doi:10.1097/OLQ.0000000000002135.

- PubMed PMID: 39932205; PubMed Central PMCID: PMC12064372.
112. Murphy E, **Kline DM**, McKnight E, Bonny A, Miller WC, Waller L, Hepler SA. Integrating data at multiple spatial scales to estimate the local burden of the opioid syndemic. *Spatial and Spatio-temporal Epidemiology*. 2025;53:100720. doi:10.1016/j.sste.2025.100720. PubMed PMID: 40490329; PubMed Central PMCID: PMC12168144.
113. Crowley RJ*, Lally JS, **Kline DM**, Bunting AM. Urban-rural differences in the age of US physicians. *J Rural Health*. 2025;41(3):e70054. doi:10.1111/jrh.70054. PubMed PMID: 40734197.
114. Egan KL, Lewis B, Fields K, McMillian Iii J, Graves RL, **Kline DM**, Eldridge LA. Implementation of Medication Disposal Programs and Availability of Same-Day Naloxone at Community Pharmacies: Protocol for a Secret Shopper Caller Approach. *JMIR Res Protoc*. 2025;14:e64344. doi:10.2196/64344. PubMed PMID: 40493386; PubMed Central PMCID: PMC12188141.
115. Benedetti MH, **Kline DM**, Pan Y*, Evans A, Sarle M, Humphries K, Zhu M. Spatial heterogeneity in the impacts of Ohio's enhanced graduated driver's licensing law on teen motor vehicle crashes. *Journal of Safety Research*. 2025;94:48-58. doi:10.1016/j.jsr.2025.06.009. PubMed PMID: 40930662.
116. Crowley RJ*, Lally JS, **Kline DM**, Bunting AM. Geospatial Analysis of Telemedicine Physicians in the United States. *Telemedicine and e-Health*. Published online June 26, 2025:tmj.2025.0160. doi:10.1089/tmj.2025.0160. PubMed PMID: 40567152.
117. Mann-Jackson L, Alonso J, Chaffin JW, Aguilar-Palma SK, Tanner AE, **Kline DM**, Sucaldito AD, Stafford JM, Jibriel MSE, Goldenberg T, Russell LP, Toro AD, Weil PH, Wilkin AM, Rhodes SD. Lessons Learned From a Trial of a Bilingual Community-Based Peer Navigation And mHealth Intervention to Address HIV, STI, HCV, and Mpox Inequities Among GBQMSM and Transgender and Nonbinary Persons in Appalachia. *AIDS Educ Prev*. 2025;37(4):273-287. doi:10.1521/aeap.2025.37.4.273. PubMed PMID: 40900188.
118. Murphy E, **Kline DM**, Hepler SA. The role of spatially varying loadings in dynamic spatial factor models for modeling the opioid syndemic. *Health Serv Outcomes Res Method*. Published online September 16, 2025. doi:10.1007/s10742-025-00356-7. PubMed PMID: 41049474; PubMed Central PMCID: PMC12490277.
119. Skallsjö K, Brennan MT, Hasséus B, Öhman J, Raber-Durlacher JE, Huysmans MDNM, Laheij AMGA, Van Leeuwen SJM, Hovan AJ, Garming Legert K, Isom S, **Kline DM**, Blillevens NMA, Johansson J, Von Bültzingslöwen I. Patient-Reported Oral Symptoms and Their Impact on Well-Being After Haematopoietic Cell Transplantation. *Oral Diseases*. Published online September 18, 2025:doi.70099. doi:10.1111/odi.70099. PubMed PMID: 40966640.
120. Tanner AE, Mann-Jackson L, Alonso J, Chaffin JW, Stafford JM, **Kline DM**, Aguilar-Palma SK, Goldenberg T, Sucaldito AD, Jibriel MSE, Faller RW, Russell LP, Weil PH, Garcia M, Wilkin AM, Toro AD, Rhodes SD. A Bilingual HIV Status-Neutral Intervention to Promote Heath Equity Among GBQMSM and Transgender and Nonbinary Persons in Appalachia: Outcomes From the Appalachian Access Project Intervention Trial. *AIDS Education and Prevention*. 2025;37(5):379-396. doi:10.1521/aeap.2025.37.5.379. PubMed PMID: 41086046.
121. Kaufeld K, Greene A, Hepler S, **Kline DM**, Ireland M, Gibbons-Burgener SN, Toda M, Williams S, Gorris M. Exploring the environmental drivers of human blastomycosis cases in the midwestern United States. *Environ Res: Health*. Published online October 30, 2025. doi:10.1088/2752-5309/ae1996

Letters to the Editor

1. Caterino JM, **Kline DM**. Reply to: Some Concerns About Diagnostic Test Accuracy for Infections. *Journal of the American Geriatrics Society*. 2017;65(10):2332-2333. doi:10.1111/jgs.15032. PubMed PMID: 28832939; PubMed Central PMCID: PMC5669063.
2. **Kline DM**, Santaella-Tenorio J, Ariadne RA, Hepler S, Cerdá M. Kline et al. respond to "Motivating better methods—and better data collection—for measuring prevalence of drug misuse." *American Journal of Epidemiology*. Published online August 6, 2024:kuae257. doi:10.1093/aje/kuae257. PubMed PMID: 39108163.

Invited Publications (Editorially Reviewed)

1. Carmichael SP, **Kline DM**. Categories of Evidence and Methods in Surgical Decision-Making. *Surgical Clinics of North America*. 2023;103(2):233-245. doi:10.1016/j.suc.2022.11.001. PubMed PMID: 36948715; PubMed Central PMCID: PMC11221629.

2. **Kline DM.** Strengthening a solid foundation: The role of spatial epidemiology within contemporary epidemiology. *Epidemiology*. doi:10.1097/EDE.0000000000001739. PubMed PMID: 38534154.

Electronic Publications

1. Rumberger J, Hollenbeak C, **Kline D.** *Potential costs and benefits of smoking cessation*. American Lung Association; 2010. <https://www.lung.org/getmedia/aebd97aa-dc3b-4f62-8791-d6c891603d63/economic-benefits.pdf.pdf?ext=.pdf>
2. **Kline D**, Kaizar E, Minich N, Stancin T, Taylor H, Wade S, Yeates K. *Meta-Analysis for Studying Psychological and Social Effects of Pediatric Traumatic Brain Injury: Existing Studies and Methods.*; 2017. doi:10.13140/RG.2.2.26712.60165

PRESENTATIONS AT PROFESSIONAL MEETINGS

Regional

The Ohio State University

1. April 10, 2014, **Kline D**, Andridge R, Kaizar E. Comparing Multiple Imputation Methods for Correlated Data. Poster at The Ohio State-Cleveland Clinic-Case Western Reserve Biostatistics Symposium, Columbus, Ohio
2. September 25, 2014, **Kline D**, Andridge R, Kaizar E. Comparing Multiple Imputation Methods for Correlated Data. Poster at the Statistics & Biostatistics Graduate Student Poster Session, Columbus, Ohio

National

The Ohio State University

1. August 6, 2014, **Kline D**, Andridge R, Kaizar E. Comparing Multiple Imputation Methods for Correlated Data. Contributed Paper at the Joint Statistical Meetings, Boston, Massachusetts
2. February 21, 2015, **Kline D**, Andridge R, Kaizar E. Multiple Imputation for Missing Data in Longitudinal Research Synthesis: Identifying and Overcoming Assumptions in Software. Poster at the Conference on Statistical Practice, New Orleans, Louisiana
3. March 16, 2015, **Kline D**, Andridge R, Kaizar E. Comparing Multiple Imputation Methods for Systematically Missing Subject-Level Data. Contributed Paper at ENAR Spring Meeting, Miami, Florida
4. August 2, 2016, **Kline D**, Andridge R, Kaizar E. Two-Level Joint Model for Imputing Subject-Level Variables of Mixed Type. Contributed Speed Presentation at the Joint Statistical Meetings, Chicago, Illinois
5. March 12, 2017, **Kline D**, Caterino J. A Case Study in Evaluating Diagnostic Tests Without a Gold Standard: From Kappa to Bayesian Latent Class Modeling. Poster at ENAR Spring Meeting, Washington, D.C.
6. August 1, 2017, **Kline D**, Hepler S, McKnight E, Bonny A. A Spatio-Temporal Joint Model of Opioid Overdose Deaths and Treatment Seeking in Ohio Counties. Contributed Speed Presentation at the Joint Statistical Meetings, Baltimore, Maryland
7. January 10, 2018, **Kline D**, Hepler S. Opioid treatment admissions and deaths for adults and adolescents in Ohio counties. Poster at International Conference on Health Policy Statistics, Charleston, South Carolina
8. March 25, 2018, **Kline D**, Hepler S, McKnight E, Bonny A. A spatial factor model approach for assessing the opioid epidemic in Ohio. Poster at ENAR Spring Meeting, Atlanta, Georgia
9. March 24, 2019, **Kline D**, Hepler S. A joint model of opioid treatment admissions and deaths for adults and adolescents in Ohio counties. Contributed Paper at the ENAR Spring Meeting, Philadelphia, Pennsylvania
10. July 31, 2019, **Kline D**, Ji Y, Hepler S. A multivariate spatio-temporal model of the opioid epidemic in Ohio: A factor model approach. Contributed Speed Presentation at the Joint Statistical Meetings, Denver,

Colorado

11. March 23, 2020, **Kline D**, Waller L, Hepler S. A Bayesian spatio-temporal abundance model for surveillance of the opioid epidemic. Contributed Paper at the ENAR Spring Meeting (virtual)
12. August 6, 2020, **Kline D**, Waller L, Hepler S. A Bayesian spatio-temporal abundance model for surveillance of the opioid epidemic. Contributed Paper at the Joint Statistical Meetings (virtual)
13. March 16, 2021, **Kline D**, Li Z, Chu Y, Wakefield J, Miller W, Norris Turner A, Clark S. Estimating Seroprevalence of SARS-CoV-2 in Ohio: A Bayesian Approach with Multiple Diagnostic Tests. Contributed Paper at the ENAR Spring Meeting (virtual)

Wake Forest University School of Medicine

14. March 29, 2022, **Kline D**, Hepler S, Krawczyk N, Cerda M, Waller L. A multivariate multiple change point model to describe opioid overdose deaths across the United States. Contributed Paper at the ENAR Spring Meeting, Houston, Texas (hybrid)
15. October 13, 2022, **Kline D**. A spatio-temporal factor model to describe the opioid syndemic in Ohio. Contributed talk at GEOMED 2022, Irvine, California (virtual)
16. October 20, 2022, **Kline D**, Hepler S, Bunting A, Rivera-Aguirre A, Krawczyk N, Cerda M. State-level evolution of overdose deaths involving stimulants in the United States, 2000-2020. Contributed Talk at the NYU Polysubstance Use Symposium, New York, New York
17. March 11, 2024, **Kline D**, Miller W, Bonny A, McKnight E, Waller L, Hepler S. A spatio-temporal factor model to describe the opioid syndemic in Ohio. Contributed Paper at the ENAR Spring Meeting, Baltimore, Maryland.
18. August 6, 2024, Estep D, Kohlschmidt J, Fofana S, **Kline D**, Lin S. Florence Nightingale Day Inspires Students to Pursue Statistics and Data Science – A Panel Discussion. Topic-Contributed Panel Discussion at the Joint Statistical Meetings, Portland, Oregon.

International

The Ohio State University

1. July 31, 2018, **Kline D**, Hepler S. A joint model of opioid treatment admissions and deaths for adults and adolescents in Ohio counties. Contributed Speed Presentation at the Joint Statistical Meetings, Vancouver, British Columbia

Wake Forest University School of Medicine

2. August 6, 2023, **Kline D**, Miller W, Bonny A, McKnight E, Waller L, Hepler S. A spatio-temporal factor model to describe the opioid syndemic in Ohio. Contributed Paper at the Joint Statistical Meetings, Toronto, Canada.

INVITED EXTRAMURAL PRESENTATIONS AND SEMINARS

Regional

The Ohio State University

1. September 29, 2017, **Kline D**. A joint spatial model of opioid associated deaths and treatment admissions in Ohio. Division of Adolescent Medicine Seminar, Nationwide Children's Hospital, Columbus, Ohio

Wake Forest University School of Medicine

2. January 12, 2022, Gonsalves G, **Kline D**, Rayo M. An Adaptive Approach to Surveillance of SARS-CoV-2. Presentation, Wake County Department of Health and Human Services, Wake County, North Carolina (virtual)
3. June 29, 2022, Gonsalves G, **Kline D**, Rayo M. An Adaptive Approach to Surveillance of SARS-CoV-2. Presentation, Forsyth County Department of Public Health, Forsyth County, North Carolina (virtual)

4. February 4, 2025. **Kline D**, Hepler S. Estimating key population size: Informing equitable public health interventions. North Carolina Department of Health and Human Services Injury and Violence Prevention Branch Opioid Meeting, Raleigh, North Carolina (virtual)

National

The Ohio State University

1. February 19, 2015, Kalicin S, Kaur A, **Kline D**, Morganstein D, Stork L. Panel Discussion: How Can Mentoring Help with the Practice of Statistics: A Panel Discussion, New Orleans, Louisiana
2. March 1, 2018, Griffith E, **Kline D**, Sharp J. Panel Discussion: Consulting in the Statistical Sciences: A Department of Biostatistics Mini-Symposium, Harvard School of Public Health, Boston, Massachusetts (virtual)
3. April 26, 2018, **Kline D**. A joint spatial model of opioid associated deaths and treatment admissions in Ohio. Department of Mathematics, Physics, and Statistics Seminar, Messiah College, Grantham, Pennsylvania
4. May 17, 2019, **Kline D**, Hepler S. A spatial factor model approach for assessing the opioid epidemic in Ohio. New England Statistics Symposium, Hartford, Connecticut
5. November 14, 2019, **Kline D**. Using spatial statistics to assess the opioid epidemic in Ohio. Department of Mathematics and Statistics Colloquia, Wake Forest University, Winston-Salem, North Carolina
6. January 7, 2020, **Kline D**, Ji Y, Hepler S. A multivariate spatio-temporal model of the opioid epidemic in Ohio: A factor model approach. International Conference on Health Policy Statistics, San Diego, California
7. January 19, 2021, **Kline D**. A Bayesian Spatio-Temporal Abundance Model for Surveillance of the Opioid Epidemic. Department of Biostatistics Seminar, Boston University, Boston, Massachusetts (virtual)
8. February 11, 2021, **Kline D**. Estimating Seroprevalence of SARS-CoV-2 in Ohio: A Bayesian Approach with Multiple Diagnostic Tests. Department of Biostatistics Seminar, Wake Forest University School of Medicine, Winston-Salem, North Carolina (virtual)
9. April 8, 2021, **Kline D**. Uncertainty and the Response to COVID-19. Statistics Colloquia, Amherst College, Amherst, Massachusetts (virtual)

Wake Forest University School of Medicine

10. September 30, 2021, Gonsalves G, **Kline D**, Malloy S, Rayo M. An Adaptive Approach to Surveillance of SARS-CoV-2. SCRUM: Strategy and Technical Discussion, Resolve to Save Lives (virtual)
11. November 12, 2021, **Kline D**. Operating under uncertainty: Disease surveillance of COVID-19. Fall Virtual Speaker Event, American Statistical Association Columbus Chapter, Columbus, Ohio (virtual)
12. February 15, 2022, Hartzel J, **Kline D**, Klopp A, Wichert. Careers in Mathematics: Alumni Panel, Messiah University Department of Computing, Mathematics and Physics, Mechanicsburg, Pennsylvania (virtual)
13. July 7, 2022, **Kline D**. An integrated abundance model for estimating county-level prevalence of opioid misuse in Ohio, Division of Biostatistics Seminar, Thomas Jefferson University, Philadelphia, Pennsylvania (virtual)
14. March 21, 2023, **Kline D**. Estimating Seroprevalence of SARS-CoV-2 in Ohio: A Bayesian Multilevel Poststratification Approach with Multiple Diagnostic Tests, ENAR Spring Meeting, Nashville, Tennessee
15. May 17, 2023, **Kline D**. An integrated abundance model for estimating county-level prevalence of opioid misuse in Ohio, Department of Epidemiology and Biostatistics Seminar, Drexel University Dornsife School of Public Health, Philadelphia, Pennsylvania
16. November 10, 2023, **Kline D**. Piecing together a puzzle: Using multiple data sources to better understand the opioid epidemic. Center for Clinical Outcomes Research and Public Health Seminar, Emory University, Atlanta, Georgia
17. June 7, 2024, Bailey B, **Kline D**, Tan K. From numbers to impact: The role of statistics outreach programs. WebENAR, ENAR (virtual)
18. September 25, 2024, **Kline D**. Using multiple data sources to estimate opioid misuse prevalence. National Institute of Statistical Sciences Statistics Serving Society Ingram Olkin Forum Committee (virtual)
19. January 8, 2025, **Kline D**. Estimating key population size: Informing equitable public health interventions. International Conference on Health Policy Statistics, San Diego, California

20. January 31, 2025. **Kline D.** Piecing together a puzzle: Using multiple data sources to better understand the opioid epidemic. Department of Biomedical Informatics Seminar, The Ohio State University, Columbus, Ohio (virtual)
21. April 2, 2025. **Kline D.** Piecing together a puzzle: Using multiple data sources to better understand the opioid epidemic. Department of Biostatistics Seminar, University of California, Los Angeles, Los Angeles, California
22. May 13, 2025. **Kline D.** Piecing together a puzzle: Using multiple data sources to better understand the opioid epidemic. Division of Biostatistics Seminar, New York University, New York, New York
23. June 6, 2025. **Kline D.** Some thoughts on Bayesian hierarchical models. COEP Open Analyst Meeting, New York University, New York, New York (virtual)

International

Wake Forest University School of Medicine

1. October 10, 2023. Alexander R, Biswas S, Estep D, **Kline D**, Kohlschmidt JK, Lin S. Florence Nightingale Day. International Day of Women in Statistics and Data Science (virtual)

INTRAMURAL PRESENTATIONS AND SEMINARS

The Ohio State University

1. September 29, 2017, **Kline D.** A joint spatial model of opioid associated deaths and treatment admissions in Ohio. Division of Adolescent Medicine Seminar, Nationwide Children's Hospital, Columbus, Ohio
2. May 8, 2018, **Kline D.** A joint spatial model of opioid associated deaths and treatment admissions in Ohio. Division of Epidemiology Research Day, The Ohio State University College of Public Health, Columbus, Ohio
3. August 10, 2018, **Kline D.** A joint model of opioid treatment admissions and deaths for adults and adolescents in Ohio counties. Department of Biomedical Informatics Seminar, The Ohio State University College of Medicine, Columbus, Ohio
4. March 8, 2019, **Kline D.** A spatial factor model approach for assessing the opioid epidemic in Ohio. Division of Biostatistics Seminar, The Ohio State University College of Public Health, Columbus, Ohio
5. October 30, 2019, **Kline D.** Spatio-temporal analysis of histoplasmosis surveillance data to inform understanding of spatial risk. Byrd Polar and Climate Research Center Seminar, The Ohio State University, Columbus, Ohio
6. October 2, 2020, **Kline D.** Uncertainty and the response to COVID-19. Department of Biomedical Informatics Seminar, The Ohio State University College of Medicine, Columbus, Ohio (virtual)
7. December 3, 2020, Malloy S, Hyder A, **Kline D**, Rayo M, Root E. Briefing: Monitoring COVID-19 in Ohio and at Ohio State. Infectious Diseases Institute Virtual COVID-19 Symposium, The Ohio State University, Columbus, Ohio (virtual)
8. January 26, 2021, **Kline D.** Uncertainty and the response to COVID-19. Center for Clinical and Translational Science 8th Annual Scientific Meeting, The Ohio State University, Columbus, Ohio (virtual)
9. February 9, 2021, Norris Turner A, **Kline D.** Estimating the prevalence of past and current COVID-19 in Ohio. Institute for Population Research Seminar Series, The Ohio State University, Columbus, Ohio (virtual)

Wake Forest University School of Medicine

1. September 28, 2021, **Kline D.** A Bayesian spatio-temporal abundance model for surveillance of the opioid epidemic. Department of Biostatistics and Data Science Seminar, Wake Forest University School of Medicine, Winston-Salem, North Carolina (virtual)
2. June 24, 2022, **Kline D.** Integrating Public Health Surveillance and Environmental Data to Model Presence of *Histoplasma* in the United States. Department of Epidemiology and Prevention, Wake Forest University School of Medicine, Winston-Salem, North Carolina (virtual)
3. September 21, 2022, **Kline D.** Prepare and organize data for collaboration. BERD: Lunch and Learn, Clinical and Translational Science Institute, Wake Forest University School of Medicine, Winston-Salem,

4. North Carolina (virtual)
4. December 14, 2022, **Kline D.** Stop Fooling Yourself: A Guide to Improve Research. Acute Care Surgery Residents and Fellows Seminar, Department of Surgery, Wake Forest University School of Medicine, Winston-Salem, North Carolina (virtual)
5. November 14, 2023, **Kline D.** Operating under uncertainty: Statistical thinking in the early stages of the COVID-19 pandemic. Department of Statistical Sciences Colloquium, Department of Statistical Sciences, Wake Forest University, Winston-Salem, North Carolina
6. January 23, 2024, **Kline D.** Piecing together a puzzle: Using multiple data sources to better understand the opioid epidemic. Division of Public Health Sciences Grand Rounds, Division of Public Health Sciences, Wake Forest University School of Medicine, Winston-Salem, North Carolina
7. February 21, 2024, Duchesneau E, **Kline D.** Beyond the OR: Slicing data for surgical research. Acute Care Surgery Residents and Fellows Seminar, Department of Surgery, Wake Forest University School of Medicine, Winston-Salem, North Carolina (virtual)

DIDACTIC/SYSTEMATIC INSTRUCTION

The Ohio State University, Department of Statistics
Lecturer, STAT 135, Elementary Statistics (3 hours)
Spring 2012, Fall 2012

The Ohio State University, Department of Biomedical Informatics
Co-Course Director, BMI 8150, Rigorous and Reproducible Design and Data Analysis (3 hours)
Spring 2020

Wake Forest University School of Medicine, Translational and Health System Science
Course Director, THSS 732, Statistical Modeling (4 hours)
Spring 2023, Spring 2024, Spring 2025, Spring 2026

MENTORING RELATIONSHIPS:

Graduate Students

2017 - 2018	Anqi Liu The Ohio State University M.S. Biostatistics Thesis Committee Member
2018 - 2019	Nicholas Pondel The Ohio State University MPH Biomedical Informatics Culminating Project Committee Member
2019 - 2020	Yuhan Pan The Ohio State University M.S. Biomedical Informatics Thesis Advisor
2020 – 2021	Nida Viqar The Ohio State University MPH Biomedical Informatics Culminating Project Committee Member
2019 – 2022	Daniel Brook The Ohio State University Ph.D. Epidemiology

Dissertation Committee Member

2020 – 2023	Angela Estadt The Ohio State University Ph.D. Epidemiology Dissertation Committee Member
2021	Daria Faulkner The Ohio State University MPH Health Behavior and Health Promotion Practicum Preceptor
2021	Amanda Bleichrodt The Ohio State University MPH Epidemiology Practicum Preceptor
2021	Sophia Padgett The Ohio State University MPH Epidemiology Practicum Preceptor
2021	Samuel Carmichael Wake Forest University School of Medicine M.S. Translational and Health System Science Capstone Committee
2021 – 2022	Payal Chakraborty The Ohio State University Ph.D. Epidemiology Dissertation Committee Member
2021 – 2023	Jianing Wang Boston University Ph.D. Biostatistics Dissertation Committee Member
2022	Alexander Ivanov Wake Forest University School of Medicine M.S. Translational and Health System Science Capstone Committee
2023 – 2024	Chenhui Qui Wake Forest University M.S. Statistics Thesis Committee Member
2023 – 2024	Ashley Mullan Wake Forest University M.S. Statistics Thesis Committee Member
2023 – present	Yuhan Pan The Ohio State University Ph.D. Epidemiology Dissertation Committee Member

2024 – 2025	Nikolas Lindauer Wake Forest University M.S. Statistics Thesis Committee Member
2025	Ryan Crowley New York University School of Medicine M.D. Honors Thesis Committee Member
2025 – present	Saskia Hamilton Wake Forest University M.S. Statistics Thesis Committee Member

Resident and Fellows

2015 – 2018	Renas Almubarak, MD MPhil Nationwide Children's Hospital, Columbus, Ohio Pediatric Emergency Medicine Fellowship Committee Member
2015 – 2018	Seth Linakis, MD Nationwide Children's Hospital, Columbus, Ohio Pediatric Emergency Medicine Fellowship Committee Member
2015 – 2018	Tracy Wagner, MD Nationwide Children's Hospital, Columbus, Ohio Pediatric Emergency Medicine Fellowship Committee Member
2015 – 2019	Colleen Bressler, MD Nationwide Children's Hospital, Columbus, Ohio Pediatric Emergency Medicine Fellowship Committee Member
2016 – 2019	Katherine Battisti, MD Nationwide Children's Hospital, Columbus, Ohio Pediatric Emergency Medicine Fellowship Committee Member
2016 – 2019	Elaise Hill, MD Nationwide Children's Hospital, Columbus, Ohio Pediatric Emergency Medicine Fellowship Committee Member
2016 – 2019	Nathan Jamieson, MD Nationwide Children's Hospital, Columbus, Ohio Pediatric Emergency Medicine Fellowship Committee Member
2016 – 2019	Jordee Wells, MD Nationwide Children's Hospital, Columbus, Ohio Pediatric Emergency Medicine Fellowship Committee Member

Faculty

2024 – Present	Heather Shappell, PhD, Assistant Professor Wake Forest University School of Medicine Mentoring Committee Member
2024 – Present	Clemontina Davenport, PhD, Assistant Professor Wake Forest University School of Medicine Mentoring Committee Member