

CURRICULUM VITAE

ALAN C. KINLAW

PERSONAL INFORMATION

Division of Pharmaceutical Outcomes and Policy
University of North Carolina School of Pharmacy
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Chapel Hill, NC 27599-7573
Email: akinlaw@unc.edu
github: <https://github.com/alankinlaw>
Twitter: @AlanKinlaw

EDUCATION

- 2016-2018 Post-doctoral Research Fellow
Cecil G. Sheps Center for Health Services Research
University of North Carolina at Chapel Hill
Primary Mentor: Dr. Timothy Carey
- 2013-2016 Doctor of Philosophy (Ph.D.)
Department of Epidemiology
University of North Carolina at Chapel Hill
Dissertation: “Antibiotic prescribing during infancy and risk of treated obstructive airway diseases during early childhood: a registry-based nationwide cohort study in Denmark”
Primary Advisor and Chair: Dr. Til Stürmer (University of North Carolina)
Second Advisor: Dr. Henrik Toft Sørensen (Aarhus University, Denmark)
- 2010-2012 Master of Science in Public Health (M.S.P.H.)
Department of Epidemiology
University of North Carolina at Chapel Hill
Master’s Paper: “Vitamin D during pregnancy and preterm delivery”
Advisor: Dr. Anna Maria Siega-Riz
- 2003-2008 Bachelor of Science (B.S.), Textile Engineering
Bachelor of Arts (B.A.), French Language and Literature
North Carolina State University; Summa Cum Laude, Phi Beta Kappa
Advisor: Dr. Russell E. Gorga

PROFESSIONAL EXPERIENCE

- 2018- *Assistant Professor*
University of North Carolina School of Pharmacy, Division of Pharmaceutical Outcomes and Policy
- 2018- *Research Fellow*
UNC-Chapel Hill, Cecil G. Sheps Center for Health Services Research
- 2018 *Epidemiologist*
University of North Carolina School of Medicine, Department of Pediatrics
- 2016-2018 *Post-doctoral Research Fellow*
UNC-Chapel Hill, Cecil G. Sheps Center for Health Services Research
- 2011-2016 *Graduate Research Assistant*
UNC-Chapel Hill, Department of Epidemiology
- 2011 *Epi Scholar Summer Intern*
New York City Department of Health and Mental Hygiene, Epidemiology Services
- 2010 *Graduate Research Assistant*
GSK and ViiV Healthcare, ID Epidemiology Unit (Research Triangle Park, NC)
- 2008-2010 *Chemical Engineer*
Armacell LLC, Global Research and Development (Mebane, NC)

OTHER RESEARCH AFFILIATIONS

- 2018- UNC School of Medicine, Center for Gastrointestinal Biology and Disease
- 2017- *Epidemiologist*, Outpatient Parenteral Antimicrobial Therapy (OPAT) Program
- 2017- UNC Lineberger Comprehensive Cancer Center
- 2016- *Epidemiologist*, Carolina Antimicrobial Stewardship Program
- 2016- North Carolina Translational and Clinical Sciences Institute (NC TraCS)
- 2016-2018 UNC School of Medicine, Department of Pediatrics
- 2013-2016 UNC School of Medicine, Center for Women's Health Research
- 2013-2016 Aarhus University (Denmark), Department of Clinical Epidemiology
- 2010- UNC School of Public Health, Department of Epidemiology

HONORS AND FELLOWSHIPS

FELLOWSHIPS

- 2016-2018 *Post-doctoral Fellow in Health Services Research (NRSA)*
T32 training grant from the Agency for Healthcare Research and Quality, sponsored by the Cecil G. Sheps Center for Health Services Research at UNC
- 2015-2016 *Henry H. Dearman Dissertation Fellow*
Dissertation completion fellowship, sponsored by the UNC Graduate School
- 2013-2015 *Pre-doctoral Fellow in Pharmacoepidemiology*
Training grant from the Center for Pharmacoepidemiology, a partnership between the UNC Dept of Epidemiology and notable non-academic stakeholders
- 2011-2013 *Pre-doctoral Fellow in Reproductive, Perinatal and Pediatric Epidemiology*
T32 training grant from the Eunice Kennedy Shriver National Institute of Child and Human Development, sponsored by the UNC School of Public Health
- 2003-2007 *Centennial Scholar*
Full scholarship for undergraduate studies at North Carolina State University

OTHER HONORS

- 2018, 2020 *Best reviewer*
Pharmacoepidemiology and Drug Safety, the official journal of the International Society of Pharmacoepidemiology
- 2017 Inducted, *Delta Omega Honorary Public Health Society*
Theta Chapter, University of North Carolina at Chapel Hill
- 2016 *Spotlight Poster in Pediatrics*
32nd International Conference on Pharmacoepidemiology; Dublin, Ireland
- 2016 *Service Award, Delta Omega Honorary Public Health Society*
Theta Chapter, University of North Carolina at Chapel Hill
- 2016 Nominated, *Student Excellence in Mentoring Award*
Graduate School, University of North Carolina at Chapel Hill
- 2015 Inducted, *Royster Society of Fellows*
Graduate School, University of North Carolina at Chapel Hill
- 2015 *Gillings Dissertation Award*
School of Public Health, University of North Carolina at Chapel Hill

- 2014, 2015 *Visiting pre-doctoral student, invited and funded for two 2-month visits*
Department of Clinical Epidemiology, Aarhus University (Denmark)
- 2014 *Pre-dissertation Travel Award*
Center for Global Initiatives, University of North Carolina at Chapel Hill
- 2014 *Sidney Kark Award for Distinguished Teaching Assistant*
Department of Epidemiology, University of North Carolina at Chapel Hill
- 2014 *Rebecca James Baker Scholarship in Epidemiology*
Department of Epidemiology, University of North Carolina at Chapel Hill
- 2014 *Program for Excellence*
American Association for the Advancement of Science
- 2013 *Koch Travel Award*
School of Public Health, University of North Carolina at Chapel Hill
- 2013 Nominated, *Boka W. Hadzija Award for Distinguished University Service*
Graduate School, University of North Carolina at Chapel Hill
- 2013-2017 *Student Travel Award to attend annual meeting*
International Society for Pharmacoepidemiology
- 2012 *8th Summer Institute in Reproductive and Perinatal Epidemiology*
Canadian Institute of Human Development, Child & Youth Health and the
Eunice Kennedy Shriver National Institute of Child and Human Development
- 2007 *Julia Skinner Scholarship (French)*
Department of Foreign Languages & Literatures, North Carolina State University

BIBLIOGRAPHY AND PRODUCTS OF SCHOLARSHIP

REFEREED ARTICLES

Also available at NCBI (<https://bit.ly/2LOzji9>), Google Scholar (<http://bit.ly/2CaG2OI>), or ORCID (<https://bit.ly/2RWJ3Gh>).

(* denotes that the author is a trainee for whom I served as primary mentor.)

(§ denotes that as co-author I served as lead methodologist for the project.)

1. Gaber CE, Edwards JK, Lund JL, Peery AF, Richardson DB, **Kinlaw AC**.
Inverse probability weighting to estimate exposure effects on the burden of recurrent outcomes in the presence of competing events and measured confounding.
American Journal of Epidemiology in press.
2. Nguyen JT*, Barnes EL, Thorpe CT, KB Stitzenberg, Tak CR, **Kinlaw AC**.
Postoperative Use of Biologics was Less Common among Patients With Crohn's Disease Following Emergent/Urgent Versus Elective Intestinal Resection.
Gastro Hep Advances in press.
3. **Kinlaw AC**, Kshirsagar AV.
Ongoing Lessons from the Comprehensive ESRD Care (CEC) Program.
Kidney360 in press.
4. Zhao Y, Zhang J, Zheng K, Thai S, Simpson RJ, **Kinlaw AC**, Xu Y, Wei J, Cui X-L, Buse JB, Stürmer T, Wang T.
Serious Cardiovascular Adverse Events Associated with Hydroxychloroquine/chloroquine Alone or with Azithromycin in Patients with COVID-19: A pharmacovigilance analysis of FDA Adverse Event Reporting System (FAERS).
Drugs - Real World Outcomes 2022 Jun;9(2):231-241.
PMID: 35386046. PMCID: PMC8985751. doi: 10.1007/s40801-022-00300-y.
5. Gaber CE, **Kinlaw AC**, Peery AF.
Comparative Effectiveness and Harms of Antibiotics for Outpatient Diverticulitis.
Annals of Internal Medicine 2022 Mar;175(3):W25-W26.
PMID: 35286833. doi: 10.7326/L22-0008.
6. **Kinlaw AC**, Andricosky R, Thorpe CT, Kinoshian B, van Reenen C, Kshirsagar AV.
The Program of All-Inclusive Care for the Elderly: A Potential Model of Coordinated Care for Patients on Dialysis.
Journal of the American Geriatrics Society 2022 May;70(5):1591-1594.
PMID: 35072282. doi: 10.1111/jgs.17665
7. Duchesneau ED, **AC Kinlaw**, Jonsson Funk M, Pate V, Lund JL.
Trends in the use of disease-modifying therapies among reproductive-aged women with multiple sclerosis in the United States from 2010 to 2019.

- Pharmacoepidemiology and Drug Safety* 2022 Apr;31(4):481-487.
PMID: 35088492. doi: 10.1002/pds.5411
8. Henderson HI, Napravnik S, Aiello AE, Gower EW, **Kinlaw AC§**, Williams W, Wohl DA, van Duin D.
Resistance in Enterobacterales is higher among people with HIV: a cohort study.
Clinical Infectious Diseases 2021 Oct 13;ciab901.
PMID: 34643220 doi: 10.1093/cid/ciab901.
 9. Wouk K*, **Kinlaw AC§**, Farahi N, Pfeifer H, Yeatts B, Paw MK, Robinson WR.
Correlates of receiving guideline-concordant postpartum health services in the community health center setting.
Women's Health Reports 2022;3(1):180-193. doi:10.1089/whr.2021.0084
 10. Tang H, Zhou L, Li X, **Kinlaw AC§**, Yang JY, Moon AM, Barnes EL, Wang T.
Drug-Induced Liver Injury Associated with Lopinavir-Ritonavir in Patients with COVID-19: A Disproportionality Analysis of U.S. Food and Drug Administration Adverse Event Reporting System (FAERS) Data.
International Journal of Clinical Pharmacy 2021 Aug;43(4):1116-1122.
PMID: 34328585. PMCID: PMC8323539. doi: 10.1007/s11096-021-01311-5.
 11. Dasgupta N, Wang Y, Bae J, **Kinlaw AC§**, Chidgey BA, Cooper T, Delcher C.
Inches, Centimeters, and Yards: Overlooked Definition Choices Inhibit Interpretation of Morphine Equivalence.
Clinical Journal of Pain 2021 Aug 1;37(8):565-574.
PMID: 34116543. PMCID: PMC8270512. doi: 10.1097/AJP.0000000000000948.
 12. Thomas T, Golin CE, **Kinlaw AC§**, Kirkman MS, Golden SD, Lightfoot AF, Samuel-Hodge CD.
Did the 2015 USPSTF Abnormal Blood Glucose Recommendations Change Clinician Attitudes or Behaviors? A Mixed-Method Assessment.
Journal of General Internal Medicine 2021 Apr 7. Epub ahead of print.
PMID: 33826060. doi: 10.1007/s11606-021-06749-x.
 13. Ross RK*, **Kinlaw AC§**, Herzog MM, Jonsson Funk M, Gerber JS.
Fluoroquinolone Antibiotics and Tendon Injury in Adolescents.
Pediatrics 2021 Jun; 147(6):e2020033316.
PMID: 33990459. PMCID: PMC8168605. doi: 10.1542/peds.2020-033316.
- Accompanying commentary: El Feghaly RE and Goldman JL.
Perceived Harm May Be Helpful: Fear of Fluoroquinolone-Associated Adverse Events in Children.
Pediatrics 2021 Jun; 147(6):e2021050321.
PMID: 33990460. doi: 10.1542/peds.2021-050321.

14. Gaber CE (co-first), **Kinlaw AC** (co-first), Edwards JK, Lund JL, Stürmer T, Peacock Hinton S, Pate V, Sandler RS, Peery AF.
Comparative Effectiveness and Harms of Antibiotics for Outpatient Diverticulitis: Two Nationwide Cohort Studies.
Annals of Internal Medicine 2021 Jun;174(6):737-746. Epub 2021 Feb 23.
PMID: 33617725. doi: 10.7326/M20-6315.
† Kinlaw and Gaber contributed equally and shared first-author responsibilities.
15. Ross RK*, Gerber JS, Willis ZI, Hersh AL, **Kinlaw AC**§.
Outpatient fluoroquinolone use in children, 2000-2018.
Journal of the Pediatric Infectious Diseases Society 2021 May 28;10(5):576-585.
PMID: 33377490. doi: 10.1093/jpids/piaa156.
16. Englund TR, **Kinlaw AC**, Sheikh SZ.
Rise and Fall: Hydroxychloroquine and COVID-19 Global Trends: Interest, Political Influence, and Potential Implications.
ACR Open Rheumatology 2020 Dec; 2(12):760-766.
PMID: 33263947. PMCID: PMC7738805. doi: 10.1002/acr2.11207.
17. Richardson DB, Keil AP, Edwards JK, **Kinlaw AC**, Cole SR.
Standardizing Discrete Time Hazard Ratios with a Disease Risk Score.
American Journal of Epidemiology 2020 Oct 1;189(10):1197-1203.
PMID: 32347298. PMCID: PMC7666420. doi: 10.1093/aje/kwaa061.
18. Mbah O, **Kinlaw AC**§, Trogon JG, Wheeler SB, Samuel CA.
The Affordable Care Act and Disparities in Colorectal Cancer Screening among Individuals 50-64 Years Old.
American Journal of Preventive Medicine 2020 Feb;58(2):175-181.
PMID: 31959320. doi: 10.1016/j.amepre.2019.09.002
19. Richardson DB, Keil AP, Cole SR, **Kinlaw AC**.
Assessing Exposure-Response Trends Using the Disease Risk Score.
Epidemiology 2020 Mar;31(2):e15-e16. doi: 10.1097/EDE.0000000000001145.
PMID: 31809343. doi: 10.1097/EDE.0000000000001145
20. Barnes EL, Jiang Y, Kappelman MD, Long MD, Sandler RS, **Kinlaw AC**§ (co-last), Herfarth HH (co-last).
Decreasing Colectomy Rate for Ulcerative Colitis in the United States between 2007 and 2016: A Time Trend Analysis.
Inflammatory Bowel Diseases 2020 Jul 17;26(8):1225-1231.
PMID: 31634390. PMCID: PMC7365804. doi: 10.1093/ibd/izz247
† Kinlaw and Herfarth contributed equally and shared senior-author responsibilities.
21. Mitchell AP, **Kinlaw AC**§, Peacock-Hinton S, Dusetzina SB, Sanoff HK, Lund JL.
Use of High-Cost Cancer Treatments in Academic and Private Practice.
The Oncologist 2020 Jan;25(1):46-54.
PMID: 31611329. PMCID: PMC6964140. doi: 10.1634/theoncologist.2019-0338.

22. Strassle PD, **Kinlaw AC**§, Angle HL, Lumpkin S, Chaumont N, Koruda MJ, Peery AF. Rates of Elective Colectomy for Diverticulitis in the United States Before and After a Guideline Change. *Gastroenterology* 2019 Dec;157(6):1679-1681.e11. PMID: 31499038. PMCID: PMC6878190. doi: 10.1053/j.gastro.2019.08.045.
23. Richardson DB, Keil AP, **Kinlaw AC**, Cole SR. Marginal Structural Models for Risk or Prevalence Ratios for a Point Exposure Using a Disease Risk Score. *American Journal of Epidemiology* 2019; 188(5):960-966. PMID: 30726868. PMCID: PMC6494663. doi: 10.1093/aje/kwz025.
24. **Kinlaw AC**, Marx AH, Farel CE. Bias-corrected Estimates of Time-varying Adverse Drug Event Rates for Patients on Outpatient Parenteral Antimicrobial Therapy (OPAT). *Clinical Infectious Diseases* 2018; 67(2):316-318. PMID: 29481658. doi: 10.1093/cid/ciy104. In top 10% of most downloaded articles during 2017-2018.
25. Richardson DB, **Kinlaw AC**, Keil AP, Naimi AI, Kaufman JS, Cole SR. Inverse probability weights for the analysis of polytomous outcomes. *American Journal of Epidemiology* 2018; 187(5):1125-1127. PMID: 29390115. PMCID: PMC5928462. doi: 10.1093/aje/kwy020.
26. Carey TS, **Kinlaw A**. Review: In primary care, CRP testing, shared decision making, and procalcitonin reduce antibiotic prescribing for ARI. *Annals of Internal Medicine* 2018;168(2):JC11. PMID: 29335723. doi: 10.7326/ACPJC-2018-168-2-011.
27. **Kinlaw AC**, Jonsson Funk M, Conover MM, Pate V, Markland AD, Wu JM. Impact of New Medications and \$4 Generic Programs on Overactive Bladder Treatment among Older Adults in the United States, 2000-2015. *Medical Care* 2018;56(2):162-170. PMID: 29287033. PMCID: PMC5766403. doi: 10.1097/MLR.0000000000000858.
28. **Kinlaw AC**, Stürmer T, Lund JL, Pedersen L, Kappelman MD, Daniels JL, Frøslev T, Mack CD, Sørensen HT. Trends in Antibiotic Use by Birth Season and Birth Year. *Pediatrics* 2017;140(3):e20170441. PMID: 28808074. PMCID: PMC5574728. doi: 10.1542/peds.2017-0441.
- Accompanying commentary: Hersh AL and Fleming-Dutra KE. Vaccines and Outpatient Antibiotic Stewardship. *Pediatrics* 2017;140(3):e20171695.

- PMID: 28808072. doi: 10.1542/peds.2017-1695.
29. **Kinlaw AC**, Buckley JP, Engel SM, Poole C, Brookhart MA, Keil AP. Left Truncation Bias to Explain the Protective Effect of Smoking on Preeclampsia: Potential, but How Plausible? *Epidemiology* 2017; 28:428-434. PMID: 28145985. PMCID: PMC5378608. doi: 10.1097/EDE.0000000000000632.
- Accompanying commentary: Whitcomb BW. Methods and Biology in an Epidemiology of Consequence. *Epidemiology* 2017; 28:435-438. PMID: 28145984. doi: 10.1097/EDE.0000000000000633.
30. Guidry VT, **Kinlaw AC**§, Johnston J, Hall D, Wing S. Hydrogen Sulfide Concentrations at Three Middle Schools near Industrial Livestock Facilities. *Journal of Exposure Science and Environmental Epidemiology* 2016; 27(2):167-174. PMID: 27094997. doi: 10.1038/jes.2016.7.
31. **Kinlaw AC**, Jonsson Funk M, Steiner MJ, Conover MM, Pate V, Wu JM. Trends in Pharmacotherapy for Bladder Dysfunction Among Children in the United States, 2000-2013. *Clinical Pediatrics* 2017; 56(1):55-64. PMID: 27075022. PMCID: PMC5063664. doi: 10.1177/0009922816641366.
32. Richardson DB, **Kinlaw AC**, MacLehose RF, Cole SR. Standardized binomial models for risk or prevalence ratios and differences. *International Journal of Epidemiology* 2015; 44(5):1660-1672. PMID: 26228585. PMCID: PMC6372130. doi: 10.1093/ije/dyv137.
33. Conover MM, Jonsson Funk M, **Kinlaw AC**, Borawski K, Wu JM. Trends and patterns of urodynamic studies in U.S. males, 2000-2012. *PloS ONE* 2015; 10(7): e0133657. PMID: 26196514. PMCID: PMC4511189. doi: 10.1371/journal.pone.0133657.
34. Conover MM, Howell JO, Wu JM, **Kinlaw AC**, Dasgupta N, Jonsson Funk M. Incidence of opioid-managed pelvic pain after hysteroscopic sterilization versus laparoscopic sterilization, U.S. 2005-2012. *Pharmacoepidemiology and Drug Safety* 2015; 24:875-884. PMID: 25832014. PMCID: PMC4527877. doi: 10.1002/pds.3766.
35. Conover MM, Jonsson Funk M, **Kinlaw AC**, Connolly A, Wu JM. Trends and Patterns of Urodynamic Studies in U.S. Women, 2000-2012. *Obstetrics and Gynecology* 2015; 125(3):559-565. PMID: 25730216. PMCID: PMC4347991. doi: 10.1097/AOG.0000000000000641.

36. Siega-Riz AM, Estrada Y, **Kinlaw A§**, Reinhart GA, Allen LH, Shahab-Ferdows S, Heck J, Suchindran CM, Bentley ME.
Effect of supplementation with a lipid-based nutrient supplement on the micronutrient status of children aged 6 to 18 months living in the rural region of Intibucá, Honduras.
Paediatric and Perinatal Epidemiology 2014 May; 28(3):245-254.
PMID: 24628577. PMCID: PMC7213595. DOI: 10.1111/ppe.12117.
37. Ben-Davies M, **Kinlaw A§**, Estrada Y, Bentley ME, Siega-Riz AM.
Risk factors associated with presence and severity of food insecurity in rural Honduras.
Public Health Nutrition 2013 Aug; 17(1): 1-9.
PMID: 23915678. doi: 10.1017/S1368980013002048.
38. Ringwalt C, Paschall MJ, Gorman D, Derzon J, **Kinlaw A**.
The Use of One- Versus Two-Tailed Tests to Evaluate Prevention Programs.
Evaluation & the Health Professions 2011 Jun; 34(2): 135-150.
PMID: 21138911. doi: 10.1177/0163278710388178.

NON-REFEREED PUBLICATIONS

1. Siega-Riz AM, **Kinlaw A**, Deming DM, Reidy KC. Complementary Feeding and the Health and Development of the Infant over the Immediate Period of Infancy and Early Childhood: New Findings from the Feeding Infants and Toddlers Study (FITS) 2008.
Nestlé Nutrition Institute Workshop Series Pediatric Programme 2010; 68:83-100.
PMID: 22044893. doi: 10.1159/000325667
2. Siega-Riz AM, **Kinlaw A**. Infant Feeding Practices and Appropriate Development of Early Childhood Eating Habits: What Is Currently Happening in the U.S.
The Nest 2010; 29: 6-7.

github: <https://github.com/alankinlaw>

On my github linked above, I have developed two macros freely available to all that leverage SAS software (Cary NC) for analysis of epidemiologic data. Both are designed for beginner to advanced investigators, to reduce potential barriers to improved analysis and reporting of results in their research products. The first, titled “Easy_ICD9-to-10_GEMs_mapping,” leverages code mappings from the National Center for Health Statistics to easily generate a listing of diagnosis and procedure codes, when an investigator wants to conduct a study that spans the 2015 transition from ICD-9 to ICD-10 coding paradigms. The second, titled “Easy-SAS-Love-Plot-for-Covariate-Imbalance,” allows a user to generate a graphical display effect sizes in crude and adjusted data, with maximum flexibility and minimal inputs for a clear depiction of variables that might lead to bias in epidemiologic studies. The third, titled “Left-truncation,” is a companion

to the working paper by Cande V Ananth, Hillary L Graham, and myself, entitled “Placental Abruption, Early Loss, and Perinatal Mortality: Impact of Left Truncation Bias;” it allows a user to simulate data parameters to examine the impact of left truncation mechanisms on bias of cohort designs with multiple confounding covariates and mediators.

REFEREED CONFERENCE PRESENTATIONS

ORAL

1. Duchesneau ED, Shmuel S, Faurot KR, Park J, Musty A, Pate V, **Kinlaw AC**, Stürmer T, Jonsson Funk M, Lund JL.
Translation of a Medicare claims-based frailty index from ICD-9-CM to ICD-10-CM.
38th International Conference on Pharmacoepidemiology; 2022.
Copenhagen, Denmark.
2. Shmuel S, Pate V, Duchesneau ED, Edwards JK, **Kinlaw AC**, Lund JL.
Examining Missing Data Approaches When Characterizing Longitudinal Patterns of Anticholinergic and Sedative Drug Load Among Older Adults.
38th International Conference on Pharmacoepidemiology; 2022.
Copenhagen, Denmark.
3. Rezk S, Neslund-Dudas C, Barrett A, Tam S, Fridman I, Jordan L, **Kinlaw AC**, Middlebrooks W, Royce T, Smith A, Stein J, Wood WA, Elston Lafata J.
Black Americans' Perceptions of Communication and Other Factors during Oncology Care Virtual Visits.
International Conference on Communication in Healthcare; 2022.
Glasgow, Scotland.
4. Ponder MG (presenter), **Kinlaw AC**, Daniels LM, Norris AM, Alby K.
Susceptibility Reporting and Antibiotic Prescribing for UTIs in the Inpatient Setting: A Nudge toward Improved Stewardship.
Society for Healthcare Epidemiology of America Spring Conference; 2022.
Colorado Springs, CO.
* Top Featured Oral Abstract.
5. Ross RK (presenter), Gerber JS, Herzog MM, Jonsson Funk M, **Kinlaw AC (senior)**.
Fluoroquinolone antibiotic exposure and risk of Achilles tendon injury in adolescents in the United States 2000-2018.
36th International Conference on Pharmacoepidemiology; 2020.
Berlin, Germany.
6. Lumpkin ST (presenter), Stitzenberg K, **Kinlaw AC (senior)**.
Preoperative opioid exposure increases fragmentation of pain management after discharge.
American Society of Colon and Rectal Surgeons Annual Scientific Meeting; 2020.
Boston, MA USA.
7. Gaber CE (presenter), **Kinlaw AC**, Edwards JK, Lund JL, Stürmer T, Peacock-Hinton S, Sandler RS, Peery AF.

- Effect of Amoxicillin-Clavulanate versus Metronidazole and a Fluoroquinolone on Hospital Admission Risk in Outpatients with Diverticulitis in the United States during 2000-2015.
Digestive Disease Week; 2020.
Chicago, IL USA.
8. Lumpkin ST (presenter), Strassle PD, Stitzenberg K, Lund JL, **Kinlaw AC (senior)**.
Opioid prescribing in the emergency department after hospital discharge following colorectal surgery.
Academic Surgical Congress; 2020.
Orlando, FL USA.
 9. Barnes EL (presenter), Kappelman MD, Long MD, Sandler RS, **Kinlaw AC (senior)**.
A significant decrease in the rate of colectomy for ulcerative colitis among commercially insured patients in the United States between 2007-2016.
Digestive Disease Week; 2019.
San Diego, CA USA.
 10. **Kinlaw AC (project lead)**, Gray CL, Hall D, Guidry VT (presenter).
Novel air pollution exposure indices for homes near industrial swine and poultry operations in North Carolina (USA).
Joint Annual Meeting of the International Society of Exposure Science and International Society for Environmental Epidemiology (ISES-ISEE); 2018.
Ottawa, ON, Canada.
 11. **Kinlaw AC (presenter)**, Sørensen HT, Lund JL, Pedersen L, Daniels JL, Kappelman MD, Mack CD, Steiner MJ, Frøslev T, Stürmer T.
*Selected as one of only two oral presentations at the symposium.
Antibiotic Prescribing During Infancy and Risk of Treated Airway Diseases Among Children Born in Denmark 2004-2012.
Triangle Comparative Effectiveness Research Symposium; 2017.
Durham, NC USA.
 12. **Kinlaw AC (presenter)**, Sørensen HT, Lund JL, Pedersen L, Daniels JL, Kappelman MD, Mack CD, Steiner MJ, Frøslev T, Stürmer T.
Antibiotic Prescribing During Infancy and Risk of Treated Airway Diseases Among Children Born in Denmark 2004-2012.
33rd International Conference on Pharmacoepidemiology; 2017.
Montréal, QC, Canada.
 13. **Kinlaw AC (presenter)**, Sørensen HT, Lund JL, Pedersen L, Daniels JL, Kappelman MD, Mack CD, Steiner MJ, Frøslev T, Stürmer T.
Antibiotic Prescribing during Infancy and Risk of Treated Obstructive Airway Diseases During Early Childhood: A Registry-based Nationwide Cohort Study of Children Born in Denmark, 2004-2012.
33rd National Research Service Award Trainees Conference; 2017.

New Orleans, LA USA.

14. **Kinlaw AC (presenter)**, Sørensen HT, Lund JL, Pedersen L, Daniels JL, Kappelman MD, Stürmer T.
Birth Cohort Effects on Overall and Subtype-Specific Antibiotic Use Among Infants Born in Denmark 2004-2012.
32nd International Conference on Pharmacoepidemiology; 2016.
Dublin, Ireland.
15. **Kinlaw AC (presenter)**, Wu JM, Conover MM, Pate V, Jonsson Funk M.
Antimuscarinic utilization in the United States pediatric population, 2000-2011.
30th International Conference on Pharmacoepidemiology; 2014.
Taipei, Taiwan.
16. **Kinlaw A (presenter)**, Jonsson Funk M, Conover M, Markland A, Jannelli M, Wu J (presenter).
Antimuscarinic utilization among adults, United States 2000-2011.
American Geriatrics Society Annual Scientific Meeting; 2014.
Orlando, FL USA.
17. **Kinlaw A (presenter)**, Siega-Riz AM, Dole N.
Acknowledging and satisfying the positivity assumption in case-control studies.
Society for Epidemiologic Research Annual Meeting; 2013.
Boston, MA USA.

SELECTED POSTER PRESENTATIONS

1. Mackow NA (presenter), Eiffert SR, **Kinlaw AC**, Kooken BW, Miller MB, Bartelt LA, Ciccone EJ.
Clinical management changes after positive multiplex gastrointestinal pathogen panel testing for evaluation of diarrhea.
IDWeek (Joint Annual Meeting for IDSA, SHEA, HIVMA, and PIDS); 2022.
Washington, DC USA.
2. Duchesneau ED (presenter), Faurot KR, Kim DH, Jonsson Funk M, Stürmer T, **Kinlaw AC**, Poole C, Her QL, Wang T, Lund JL.
Validity of varying ascertainment windows for a Medicare claims-based proxy for frailty in women with stage I-III breast cancer.
ASCO Quality Care Symposium; 2022.
Chicago, IL.
3. Stafford K (presenter), Kumar A, Pate V, Loren A, **Kinlaw AC (senior)**.
Persistent high-risk opioid use in lymphoma survivors following treatment.
38th International Conference on Pharmacoepidemiology; 2022.
Copenhagen, Denmark.

4. **Kinlaw AC (presenter)**, Ellis AE, Martin CL, Webster-Clark M, Jonsson Funk M, Poole C, Pate V, Her QL, Ponder MG, Lund JL, Stürmer T.
Comparing ways to include racial and ethnic categories in propensity score analysis of observational data: an application in US Medicare beneficiaries initiating DPP4 inhibitors vs sulfonylureas.
38th International Conference on Pharmacoepidemiology; 2022.
Copenhagen, Denmark.
5. Ponder MG (presenter), Alby K, Daniels LM, Norris AM, **Kinlaw AC (senior)**.
Susceptibility Reporting and Antibiotic Prescribing for UTIs in the Inpatient Setting: A Nudge toward Improved Stewardship.
38th International Conference on Pharmacoepidemiology; 2022.
Copenhagen, Denmark.
6. Eiffert SR, Ciccone EJ, Mackow NA, Bartelt L, **Kinlaw AC (senior, presenter)**.
Positive results from a Gastrointestinal Pathogen Panel (GIPP) and subsequent antimicrobial management among patients with diarrhea.
38th International Conference on Pharmacoepidemiology; 2022.
Copenhagen, Denmark.
7. Stafford K (presenter), Kumar A, Pate V, Loren A, **Kinlaw AC (senior)**.
Persistent high-risk opioid use in lymphoma survivors following treatment.
American Society of Clinical Oncology Annual meeting; 2022.
Chicago, IL.
8. Gaber CE (presenter), Edwards JK, Lund JL, Peery AF, Richardson DB, **Kinlaw AC (senior)**.
Inverse probability weighting to estimate exposure effects on the burden of recurrent outcomes in the presence of competing events.
Society for Epidemiologic Research Annual Meeting; 2022.
Chicago, IL.
9. Eiffert SR, **Kinlaw AC (senior, presenter)**.
Intravenous vancomycin use at discharge and 90-day risk of readmission or death.
37th International Conference on Pharmacoepidemiology; 2021.
Virtual.
10. Swartwood M (presenter), Farel CE, Mavrogiorgos N, Boerneke R, Marx AH, Ciccone EJ, Schranz AJ, **Kinlaw AC (senior)**.
Identifying Intervention Opportunities to Prevent Readmissions during OPAT. IDWeek (Joint Annual Meeting for IDSA, SHEA, HIVMA, and PIDS); 2020.
Philadelphia, PA USA.
11. Strassle PD (presenter), Ross RK, Marx AH, Willis ZI, Farel CE, **Kinlaw AC (senior)**.
Differential Missingness Of Antibiotic Indications In Claims Data.
36th International Conference on Pharmacoepidemiology; 2020.
Berlin, Germany.

12. Gaber CE (presenter), Peery AF, Edwards JK, Lund JL, Stürmer T, Peacock-Hinton S, Sandler RS, **Kinlaw AC (senior)**.
Comparative Effectiveness of Amoxicillin-Clavulanate versus Metronidazole and a Fluoroquinolone on Hospital Admission Risk among Outpatient Diverticulitis Patients in the United States, 2000-2015.
36th International Conference on Pharmacoepidemiology; 2020.
Berlin, Germany.
13. Nguyen J (presenter), Srinivasan S, Barnes EL, **Kinlaw AC (senior)**.
Biologic Use and Persistence for Crohn's Disease After Intestinal Resection in the United States 2002-2018.
36th International Conference on Pharmacoepidemiology; 2020.
Berlin, Germany.
14. Eiffert SR (presenter), Pate V, Lund JL, Roberts AW, Stürmer T, **Kinlaw AC (senior)**.
Potential bias in matched cohort studies when the referent group lacks a clearly defined time origin for follow-up.
36th International Conference on Pharmacoepidemiology; 2020.
Berlin, Germany.
15. Cummings DM (presenter), Jones S, Bushnell C, Halladay J, **Kinlaw AC**, Wen M, Duncan P.
Age and Race Disparities in Statin Prescribing Persist Following Discharge for Stroke or Transient Ischemic Attack.
International Stroke Conference; 2020.
Los Angeles, CA USA.
16. Boerneke R (presenter), Swartwood M, **Kinlaw AC**, Holt A, Kikani B, Farel CE, Mavrogiorgos N.
Phone-based Initiative for Care Coordination with patients receiving Intravenous antibiotics in the UNC Infectious Disease Outpatient Parenteral Antimicrobial Therapy (OPAT) Program.
UNC Health Care Quality Expo; 2019.
Chapel Hill, NC USA.
17. Ciccone EJ (presenter), Miller MB, Weber DJ, Juliano JJ, Jhaveri R, Willis ZI, **Kinlaw AC (senior)** on behalf of the UNC Antimicrobial Stewardship Team.
Respiratory Viral Testing and Antimicrobial De-escalation among Hospitalized Patients at a Tertiary Care Facility, 2015-2016: A Matched Cohort Study Series. IDWeek (Joint Annual Meeting for IDSA, SHEA, HIVMA, and PIDS); 2019.
Washington, DC USA.
18. Mays E (presenter), **Kinlaw AC**, Swartwood MJ, Boerneke R, Farel CE, Marx AH on behalf of the UNC Antimicrobial Stewardship Team.

- Evaluation of Adverse Drug Events due to Common Beta-Lactam Therapies Among Patients Enrolled in an Outpatient Parenteral Antimicrobial Therapy (OPAT) Program.
IDWeek (Joint Annual Meeting for IDSA, SHEA, HIVMA, and PIDS); 2019.
Washington, DC USA.
19. Schranz AJ, **Kinlaw AC (presenter)**, Swartwood MJ, Marx AH, Boerneke R, Medlin T, Mays E, Farel CE on behalf of the UNC Antimicrobial Stewardship Team. OPAT at the End of Life? Short and Long-Term Mortality Following Outpatient Parenteral Antimicrobial Therapy.
IDWeek (Joint Annual Meeting for IDSA, SHEA, HIVMA, and PIDS); 2019.
Washington, DC USA.
 20. **Kinlaw AC (presenter)**, Ciccone EJ, Miller MB, Weber DJ, Juliano JJ, Jhaveri R, Willis ZI on behalf of the UNC Antimicrobial Stewardship Team. Respiratory Viral Testing and Antimicrobial De-escalation among Hospitalized Patients at a Tertiary Care Facility, 2015-2016: A Matched Cohort Study Series. 35th International Conference on Pharmacoepidemiology; 2019.
Philadelphia, PA USA.
 21. Willis ZI (presenter), Dusetzina SB, Anderson DJ, Pajewski NM, **Kinlaw AC (senior)**. Antibiotic prescribing before and after an FDA boxed warning on fluoroquinolones in 2016.
IDWeek (Joint Annual Meeting for IDSA, SHEA, HIVMA, and PIDS); 2018.
San Francisco, CA USA.
 22. **Kinlaw AC (presenter)**, Duncan AR, Farel CE, Eichholz A, Kufel W, Medlin T, Fletcher L, Marx AH on behalf of the UNC Antimicrobial Stewardship Team. Vancomycin treatment and time to adverse drug reactions during Outpatient Parenteral Antimicrobial Therapy (OPAT).
IDWeek (Joint Annual Meeting for IDSA, SHEA, HIVMA, and PIDS); 2018.
San Francisco, CA USA.
 23. Ciccone EJ (presenter), **Kinlaw AC**, Chundi V, Miller MB, Weber DJ, Juliano JJ, Jhaveri R, Willis ZI on behalf of the UNC Antimicrobial Stewardship Team. The Impact of a Positive Respiratory Viral Panel among Hospitalized Adult Patients with Negative Rapid Influenza Testing at an Academic Tertiary Care Facility: A Matched Cohort Study.
IDWeek (Joint Annual Meeting for IDSA, SHEA, HIVMA, and PIDS); 2018.
San Francisco, CA USA.
 24. Drover SSM (presenter), Chawla D, **Kinlaw AC**, Ranapurwala SI. Frequency of Cannabis Use and Nonmedical Use of Prescription Pain Relievers in Adolescents and Adults in the United States, 2002-2014.
Society for Epidemiologic Research Annual Meeting; 2018.
Baltimore, MD USA.

25. Mitchell AP (presenter), **Kinlaw AC**, Dusetzina SB, Lund JL, Sanoff H, Basch EM. Cancer Patients Receive Higher-Cost Chemotherapy When Treated in Private - Practice Compared to Academic Institutions. Academy Health Annual Research Meeting; 2018. Seattle, WA USA.
26. Mbah O (presenter), Trogdon JG, **Kinlaw AC**, Samuel CA. The Affordable Care Act and Disparities in Colorectal Cancer Screening among Individuals 50-64 Years old. Academy Health Annual Research Meeting; 2018. Seattle, WA USA.
27. Ciccone EJ (presenter), Chundi V, **Kinlaw AC**, Miller MB, DiBiase LM, Weber DJ, Juliano JJ, Jhaveri R, Willis ZI on behalf of the UNC Antimicrobial Stewardship Team. The Impact of Respiratory Viral Testing in Hospitalized Adult Patients at a Tertiary Care Facility. IDWeek (Joint Annual Meeting for IDSA, SHEA, HIVMA, and PIDS); 2017. San Diego, CA USA.
28. Nwankwo O (presenter), Eichholz A, Chundi V, **Kinlaw AC**, Medlin T, Fletcher L, Kufel W, Farel C, Marx A. Characterization of Readmissions Among Patients Enrolled in an Outpatient Parenteral Antimicrobial Therapy (OPAT) Program Over a Two-Year Period at UNC Medical Center. IDWeek (Joint Annual Meeting for IDSA, SHEA, HIVMA, and PIDS); 2017. San Diego, CA USA.
29. Chundi V (presenter), Eichholz A, Nwankwo O, **Kinlaw AC**, Kufel W, Medlin T, Fletcher L, Marx A, Farel C. Adverse Drug Reactions Among Patients Enrolled in an Outpatient Parenteral Antimicrobial Therapy (OPAT) Program 2015-2016 at UNC Medical Center. IDWeek (Joint Annual Meeting for IDSA, SHEA, HIVMA, and PIDS); 2017. San Diego, CA USA.
30. **Kinlaw AC (presenter)**, Sørensen HT, Lund JL, Pedersen L, Daniels JL, Kappelman MD, Mack CD, Steiner MJ, Frøslev T, Stürmer T. Antibiotic Prescribing during Infancy and Risk of Treated Obstructive Airway Diseases During Early Childhood: A Registry-based Nationwide Cohort Study of Children Born in Denmark, 2004-2012. Academy Health Annual Research Meeting; 2017. New Orleans, LA USA.
31. **Kinlaw AC (presenter)**, Sørensen HT, Lund JL, Mack CD, Pedersen L, Daniels JL, Kappelman MD, Stürmer T.
*Selected as Spotlight Poster for Pediatrics section.

- The Impact of Birth Season on Time to First Antibiotic Use Among Infants Born in Denmark 2004-2012.
32nd International Conference on Pharmacoepidemiology; 2016.
Dublin, Ireland.
32. Seamans MJ (presenter), **Kinlaw AC**, Brookhart MA.
Bias reduction and predictive ability of classification regression trees for propensity score estimation.
Association for Computing Machinery Conference on Bioinformatics, Computational Biology, and Health Informatics; 2015.
Atlanta, GA USA.
33. **Kinlaw A (presenter)**, Wu J, Conover M, Jonsson Funk M.
Comparative safety of antimuscarinics among adults in the United States, 2000-2011.
30th International Conference on Pharmacoepidemiology; 2014.
Taipei, Taiwan.
34. **Kinlaw AC (presenter)**, Guidry VT, Gray C, Hall D, Wing S.
Prevalence of asthma symptoms in children living near animal feeding operations.
Minority Health Conference; 2014.
Chapel Hill, NC USA.
35. Raghunathan K (presenter), **Kinlaw A**, Shaw AD.
Intravenous fluid utilization among adult ICU patients in the United States.
Society of Critical Care Anesthesiologists Annual Meeting Annual Meeting; 2013.
San Francisco, CA USA.
36. **Kinlaw A (presenter)**, Stürmer T, Sørensen HT, Lund JL.
Changes in antibiotic prescribing in infants and young children in Denmark, 1999-2011.
29th International Conference on Pharmacoepidemiology; 2013.
Montréal, QC, Canada.
37. **Kinlaw A (presenter)**, Siega-Riz AM, Dole N.
Maternal characteristics as predictors of serum 25-hydroxyvitamin D among pregnant women living in North Carolina, 1997-2005.
Society for Pediatric and Perinatal Epi Research Annual Meeting; 2013.
Boston, MA USA.
38. **Kinlaw A (presenter)**, Siega-Riz AM, Dole N.
Is measured serum vitamin D level consistent across the course of pregnancy?
Society for Pediatric and Perinatal Epi Research Annual Meeting; 2012.
Minneapolis, MN USA.

TEACHING ACTIVITIES

COURSES DIRECTED AND TAUGHT

Term	Course details (Number, Title, Type)	Role
Fall 2022	PHCY 504 <i>Evidence-Based Practice</i> University of North Carolina School of Pharmacy Course Director: Dr. Carolyn Thorpe Other Co-Instructors: Dr. Carolyn Thorpe, Dr. Josh Thorpe 1 semester 149 students (1 st -year PharmD students [PY1])	Co-Instructor
Fall 2021	PHCY 504 <i>Evidence-Based Practice</i> University of North Carolina School of Pharmacy Course Director: Dr. Carolyn Thorpe Other Co-Instructors: Dr. Carolyn Thorpe, Dr. Josh Thorpe 1 semester 149 students (1 st -year PharmD students [PY1])	Co-Instructor
Spring 2021	EPID 766 / DPOP 766 (newly cross-listed in 2021) <i>Epidemiologic Research with Healthcare Databases</i> University of North Carolina at Chapel Hill Department of Epidemiology Division of Pharmaceutical Outcomes and Policy Co-instructor: Dr. Jennifer Lund 1 semester 42 students (PhD students, post-docs, and faculty) Among the 42 students, 5 DPOP PhD students	Co-Director, Co-Instructor
Spring 2019	EPID 766 <i>Epidemiologic Research with Healthcare Databases</i> University of North Carolina at Chapel Hill Department of Epidemiology Co-instructor: Dr. Jennifer Lund 1 semester 30 students (PhD and MPH students, post-docs, and faculty) Among the 30 students, 4 DPOP PhD students	Co-Director, Co-Instructor

SHORT COURSES

Term	Course details (Number, Title, Type)	Role
Fall 2022	EPID 718	Co-instructor
Fall 2021	<i>Analytic Methods in Observational Epidemiology</i>	
Fall 2020	University of North Carolina at Chapel Hill	
Fall 2019	Department of Epidemiology	
Fall 2018	Lead instructor for semester-long course: Dr. Brian Pence.	
Fall 2017		
Fall 2016	“Propensity scores and inverse probability weighting” unit held during one week of this graduate-level methods course for 3 rd -semester PhD students.	
Fall 2015	4 hours teaching.	
Fall 2014	Preparation of original exercises using SAS and R. Delivered in person each fall semester for 2014-2016. Recorded video lectures and exercises used 2017-2022.	
Fall 2017	International Society for Pharmacoepidemiology. Pediatric Pharmacoepidemiology pre-conference course. 33rd International Conference on Pharmacoepidemiology; Montréal, QC, Canada. Co-instructors: Drs. Tim Beukelman, Daniel Horton, Tamar Lasky, Rachel Sobel.	Co-Instructor
	“Leveraging granular birthdate information for studies of young children” 1 hour teaching (out of 4-hour course). Preparation of original teaching materials.	
Fall 2014	Aarhus University Department of Clinical Epidemiology Aarhus, Denmark Co-instructor: Dr. Jennifer Lund.	Co-Instructor
	“Introduction to instrumental variables in epidemiologic research” 3 hours teaching, preparation of original exercises using SAS. Methods workshop for students, faculty, clinicians and statisticians.	
Fall 2014	UCB Brussels, Belgium Co-instructors: Drs. Bradley Layton, Jennifer Lund, Til Stürmer.	<i>Co-Instructor</i>

“Observational Research”
 1 day teaching.
 Introductory methods workshop for outcomes researchers
 and epidemiologists working at UCB.

Spring 2014 Merck and Co. *Co-Instructor*
 Philadelphia, PA USA
 UNC-Merck-GSK Methodology Workshop.

“Marginal Structural Models”
 1 hour teaching.
 Advanced methods workshop for epidemiologists and
 biostatisticians working at Merck and GSK.

COURSE GUEST LECTURES

Term	Course details (Number, Title, Type)	Role
Fall 2022	PHCY 617 <i>Patient Care Experience I</i> (Third-semester course for Pharm.D. students) University of North Carolina School of Pharmacy Lead instructor: Dr. Charlene Williams	Instructor
	“Ethical Theories and Ethical Decision-Making” 1 hour teaching and interactive session with exercises.	
Spring 2022	DPOP 899 Seminar (Weekly research seminar for Ph.D. students, faculty, staff) University of North Carolina School of Pharmacy Lead instructor: Dr. Amanda Seyerle	Instructor
	“Examining Covariate Balance When Using Propensity Score Approaches for Studies in Pharmaco-epidemiology and Health Services Research” 1 hour teaching and interactive session.	
Spring 2022	EPID 893 <i>Pharmacoepidemiology Seminar</i> (Weekly seminar to explore current problems in pharmacoepidemiology, attended by students, staff, and faculty) University of North Carolina at Chapel Hill Department of Epidemiology Lead instructor: Dr. Michele Jonsson Funk	Instructor

	<p>“Digging into issues of covariate imbalance in propensity score analysis” 1 hour teaching and interactive session.</p>	
Spring 2022	<p>PHCY 624 <i>Research and Scholarship in Pharmacy</i> (First-semester research methods course for Pharm.D. students) University of North Carolina School of Pharmacy Lead instructor: Dr. Kathryn Morbitzer.</p>	Instructor
	<p>“Proposal development: defining a clear research question” 2 hours teaching and interactive session.</p>	
Spring 2021	<p>PHRS 802 <i>Drug Development and Professional Skills Development</i> (Seminar for first-year Ph.D. students) University of North Carolina School of Pharmacy Lead instructor for semester-long course: Dr. Mike Jarstfer</p>	Instructor
	<p>“Informatics and epidemiologic study design to improve antibiotic stewardship (and all its downstream effects) for clinical practice and policy making” 1 hour teaching.</p>	
Spring 2021 Spring 2020 Spring 2019	<p>PHCY 624 <i>Research and Scholarship in Pharmacy</i> (First-semester research methods course for Pharm.D. students) University of North Carolina School of Pharmacy Lead instructor: Dr. Craig Lee.</p>	Instructor
	<p>“Proposal development: defining a clear research question” 2 hours teaching and interactive session.</p>	
Spring 2022 Spring 2021 Spring 2020 Spring 2016	<p>ENGL 105I <i>Writing in Natural Science</i> (First-year undergraduate course in composition and rhetoric) University of North Carolina at Chapel Hill Department of English & Comparative Literature Lead instructor: Dr. Joseph Fletcher</p>	Instructor
	<p>“Context and communication in epidemiologic research” 2 hours teaching.</p>	

Fall 2022	DPOP 872	Instructor
Fall 2021	<i>Proposal Writing</i>	
Fall 2020	(Course for Ph.D. students in Pharmaceutical Sciences) University of North Carolina School of Pharmacy Lead instructor for semester-long course: Dr. Betsy Sleath	
	“Sample size and statistical power” 1 hour teaching.	
Fall 2020	HPM 769	Co-Instructor with Samantha Eiffert, my PhD advisee.
	<i>Cancer Outcomes Research Program Seminar</i> (Weekly seminar for Lineberger Cancer Outcomes Program) University of North Carolina at Chapel Hill Lineberger Comprehensive Cancer Center Seminar directors: Dr. Stephanie Wheeler, Dr. Ethan Basch, Dr. Matthew Nielsen.	
	“Is my matched cohort study biased? Using simulations and claims data to uncover and mitigate possible problems” 1 hour seminar.	
Spring 2022	EPID 853	Instructor
Spring 2020	<i>Advanced Perinatal and Pediatric Epidemiology</i>	
Spring 2018	University of North Carolina at Chapel Hill Department of Epidemiology Lead instructor: Dr. Stephanie Engel.	
	“Simulation studies for addressing research questions in reproductive, perinatal, and pediatric epidemiology” 2 hours teaching, preparation of original exercises in SAS.	
Fall 2019	DPOP 899	Instructor
	<i>Seminar</i> (Weekly research seminar for Ph.D. students, faculty, staff) University of North Carolina School of Pharmacy Lead instructor: Dr. Jennifer Elston Lafata.	
	“Making (sense of) big data to examine antimicrobial stewardship efforts for better and safer prescribing” 1 hour teaching.	
Fall 2016	EPID 851	Co-Instructor with Dr. Stephanie Engel
	<i>Introduction to Reproductive and Perinatal Epidemiology</i> University of North Carolina at Chapel Hill Department of Epidemiology Lead instructor: Dr. Andy Olshan.	

	<p>“Epidemiology of hypertensive diseases in pregnancy” 1 hour teaching.</p>	
Spring 2015	<p>PPS 701 <i>Pharmacoepidemiology</i> (Graduate-level course on pharmacoepidemiology) University of Kentucky (Lexington, KY) Departments of Epidemiology, Pharmacy Practice & Science Lead instructor: Dr. Daniela Moga</p>	Instructor
	<p>“Implementing quasi-experimental study designs in epidemiology” 2 hours teaching.</p>	
Spring 2015	<p>PPS 701 <i>Pharmacoepidemiology</i> (Graduate-level course on pharmacoepidemiology) University of Kentucky (Lexington, KY) Departments of Epidemiology, Pharmacy Practice & Science Lead instructor: Dr. Daniela Moga</p>	Instructor
	<p>“Happiness and Health(care data) in Denmark” 1 hour teaching.</p>	
Fall 2015	<p>ENGL 105I <i>Writing in Natural Science</i> (First-year undergraduate course in composition and rhetoric) University of North Carolina at Chapel Hill Department of English & Comparative Literature Lead instructor: Dr. Joseph Fletcher</p>	Instructor
	<p>“Quantifying nature? Numerical data and statistics in scientific research” 1 hour teaching.</p>	
Fall 2012	<p>ENGL 105I <i>Writing in Health and Medicine</i> (First-year undergraduate course in composition and rhetoric) University of North Carolina at Chapel Hill Department of English & Comparative Literature Lead instructor: Dr. Joseph Fletcher</p>	Instructor
	<p>“Writing in Health and Medicine: Epidemiology and Public Health” 1 hour teaching.</p>	

Fall 2011	<p>EPID 600 <i>Principles of Epidemiology for Public Health</i> (Graduate-level epidemiology course for non-majors) University of North Carolina at Chapel Hill Department of Epidemiology Lead instructor: Dr. Victor Schoenbach.</p> <p>“Cohort studies” 1 hour teaching.</p>	Instructor
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OTHER INVITED SEMINARS

Time	Details	Role
2021	<p>University of North Carolina School of Pharmacy Institute for Drug Safety Sciences Precision Dosing Group Program Director: Dr. Paul Watkins</p> <p>“Mining Real World Data: Resources available to UNC faculty” 1 hour seminar. Chapel Hill, NC USA</p>	Lecturer
2019	<p>University of North Carolina School of Medicine Center for Gastrointestinal Biology and Disease GI Epidemiology Conference Program Director: Dr. Robert Sandler</p> <p>“Is censoring good enough? Methods to (more appropriately) handle competing events in gastrointestinal epidemiology studies” 1 hour seminar. Chapel Hill, NC USA</p>	Lecturer
2019	<p>University of North Carolina School of Pharmacy Summer seminar in the Innovations and Transformations in Pharmaceutical Sciences Program, for visiting undergraduate students from China. Program Director: Dr. Michael Jarstfer</p> <p>“Context and (Sometimes Big) Data for Epidemiologic Research of Medication Use, Effectiveness, and Safety” 2 hours teaching. Chapel Hill, NC USA</p>	Lecturer

2018	International Society for Pharmacoepidemiology Pediatrics Special Interest Group Monthly Conference “Using electronic health record data to identify opportunities for antibiotic stewardship in the pediatric population” 1 hour seminar. Virtual.	Lecturer
2018	University of North Carolina School of Medicine Center for Gastrointestinal Biology and Disease GI Epidemiology Conference Program Director: Dr. Robert Sandler “Propensity Scores, Part Deux: Deciding When and How to Implement Them” 1 hour seminar. Chapel Hill, NC USA	Lecturer
2018	University of North Carolina School of Pharmacy Division of Pharmaceutical Outcomes and Policy “Leveraging complex data to improve antibiotic stewardship practice and policy: the intersection of informatics and epidemiologic methods” 1 hour seminar. Chapel Hill, NC USA	Lecturer
2018	University of North Carolina at Chapel Hill Cecil G. Sheps Center for Health Services Research “Evaluating the impact of respiratory viral tests at a tertiary care facility: an adventure in secondary data analysis” 1 hour seminar. Chapel Hill, NC USA	Lecturer
2017	Wake Forest School of Medicine Division of Public Health Sciences Department of Epidemiology and Prevention “Using complex data and epidemiologic approaches to inform prescribing practices and prevent excess side effects” 1 hour seminar. Winston-Salem, NC USA	Lecturer
2015	Brown University	Lecturer

Center for Environmental Health and Technology

“Epidemiologic and quasi-experimental approaches to study early life exposure to antibiotics and incident childhood asthma”

1 hour seminar.

Providence, RI USA

TEACHING ASSISTANTSHIPS DURING Ph.D. TRAINING

Term	Course details (Number, Title, Type)	Role
Spring 2015	EPID 766 <i>Epidemiologic Research with Healthcare Databases</i> University of North Carolina at Chapel Hill Department of Epidemiology Lead Instructor: Dr. Jennifer Lund 1 semester 30 doctoral and master’s students	Teaching Assistant
Spring 2015 Fall 2014 Spring 2014 Fall 2013	EPID 890 <i>Perspectives in Epidemiology and Public Health</i> University of North Carolina at Chapel Hill Department of Epidemiology Lead Instructor: Dr. Steve Wing 4 semesters 7 master’s/doctoral students (in 2013-2014 [cohort #1]) 10 master’s/doctoral students (in 2014-2015 [cohort #2])	Teaching Assistant
Fall 2013 Fall 2012	EPID 718 <i>Epidemiologic Analysis of Binary Data</i> University of North Carolina at Chapel Hill Department of Epidemiology Lead Instructor: Dr. David Richardson 2 semesters 55 doctoral and master’s students (in 2012) 36 doctoral and master’s students (in 2013)	Teaching Assistant
Spring 2011	EPID 600 <i>Principles of Epidemiology for Public Health</i> University of North Carolina at Chapel Hill Department of Epidemiology Lead Instructor: Dr. Victor Schoenbach 1 semester 36 doctoral, master’s, undergraduate students in my recitation	Teaching Assistant

MENTORING AND ADVISING

University of North Carolina School of Pharmacy

PhD advisor

- 2019- Samantha Eiffert, UNC Division of Pharmaceutical Outcomes and Policy
Dissertation: “Vaccine utilization, safety, and effectiveness among older adults with a history of Guillain-Barré Syndrome”
Dissertation research in progress. Proposal defended March 2022.
- 2018-2021 Joehl Nguyen, UNC Division of Pharmaceutical Outcomes and Policy.
Dissertation: “Treatment Patterns and Comparative Outcomes in Postoperative Crohn’s Disease: A US Claims-Based Cohort Study”
Defended in March 2021.

PhD dissertation committee chairperson

- 2020-2022 Rachel Parry, UNC Division of Pharmaceutical Outcomes and Policy
Dissertation: “Bimanual Pelvic Examinations: Temporal Trends and Potential Barriers To Self-Administered Hormonal Contraception Use”
Defended August 2022.

PhD dissertation committee member

- 2018-2020 Matthew Dixon, UNC Division of Pharmaceutical Outcomes and Policy
Dissertation: “Effect of Colorectal Cancer on Antidepressant Medication Utilization, and the Factors Associated with Discontinuation Among Medicare Patients”
Defended December 2020.

PharmD honor’s thesis committee member

- 2018-2020 Erin Mays, UNC School of Pharmacy
Thesis: “Evaluation of Adverse Drug Reactions due to Common Beta-Lactam Therapies Among Patients Enrolled in an Outpatient Parenteral Antimicrobial Therapy (OPAT) Program”
Defended February 2020.

Mentored research awards

- 2022- Samantha Eiffert, MPH – PhD candidate
Primary mentor, AHRQ R36 Dissertation Award (under review)
- 2020-2022 Rachel Parry, PharmD – PhD candidate
Mentoring team, AHRQ R36 Dissertation Award (#HS028539)

Student Advisory Committee (SAC) member

2022- Lexy Ehlert
2021- Hui-Han Chen
2020- Samantha Eiffert (chair)
2020-2021 Swetha Srinivasan
2019-2020 Joehl Nguyen (chair)

Research and Scholarship in Pharmacy (RASP) mentoring team member

2019-2022 Keven Gomez
2019-2022 Taylor Felton
2018-2020 Erin Mays
2017-2019 Asajah Duncan

PharmD Faculty Advisor

2021-2022 Ashley Addison
2021-2022 Eric Arrington
2021-2022 Hannah Bauswell
2021-2022 Ty Chapman
2021-2022 Kaitlin Donovan
2021-2022 Sydney Lewis
2021-2022 Chris Nkongnchu
2021-2022 Tazche Turner
2021-2022 Roxy Vassighi

University of North Carolina School of Public Health

PhD dissertation committee member

2021-2022 Oumar Diallo, UNC Department of Epidemiology, School of Public Health
Dissertation: “Evaluation of Comprehensive Cardiovascular Disease Care Delivery and the Impact of a Population-Level Intervention on Mortality”
Defended March 2022

2021-2022 Maya Wright, UNC Department of Epidemiology, School of Public Health
Dissertation: “Hysterectomy as Inappropriate Treatment Plan for Noncancerous Gynecologic Conditions”
Defended March 2022.

2020- Zakiya Haji-Noor, UNC Department of Epidemiology, School of Public Health
Dissertation: “Multilevel Determinants of Hysterectomy Operative Approach among a Cohort of Diverse Patients”
Dissertation research in progress. Proposal defended February 2022.

2020-2021 Heather Henderson, UNC Department of Epidemiology, School of Public Health
Dissertation: “Antimicrobial-Resistant Enterobacteriales in People with HIV in the UNC Health System”
Defended October 2021.

- 2019 Tainayah Thomas, UNC Department of Health Behavior (non-voting member)
Dissertation: “Mixed Methods Approach to Examine Prediabetes Screening, Follow-up Care, and Guideline Implementation”
Defended September 2019.

Master’s thesis/paper committee member

- 2020-2021 Emilie Duchesneau – MSPH candidate in UNC Department of Epidemiology
Thesis: “Trends in the use of disease-modifying therapies among reproductive-aged women with multiple sclerosis in the United States”
Defended March 2021.
- 2019 Katherine Stafford, MBBS/BSc – MPH candidate in UNC School of Public Health
Thesis: “Opioid Overdose And High-Risk Use In The Year Following Cancer Treatment”
Defended July 2019.

Mentored research awards

- 2019-2020 Katie Wouk, PhD – post-doctoral fellow, UNC Global Breastfeeding Institute
Scientific advisor, NIMHD K01 Career Development Award (reviewed)
- 2019-2020 Tainayah Thomas, MPH – PhD candidate, UNC Dept of Health Behavior
Mentoring team, AHRQ R36 Dissertation Award (#HS025561)
- 2019-2020 Rachael Ross, MPH – PhD student, UNC Dept of Epidemiology
Primary mentor, Pediatric Infectious Diseases Society Antimicrobial Stewardship Fellowship Award

Other academic mentoring

- 2019-2022 Katie Wouk, PhD – post-doctoral fellow at UNC Global Breastfeeding Institute
Secondary mentor (primary mentor for Wouk: Alison Stuebe, MD MSc)

Other institutions

PhD dissertation committee member

- 2020- Dana Farrakhan, Morgan State University, School of Community Health and Policy

Master’s thesis/paper committee member

- 2018-2019 Hillary Lathrop, DMD – MS candidate (post-doc) in UNC School of Dentistry
Thesis: “Orthognathic Speech Pathology: Understanding How Class III Jaw Disharmonies Influence Speech Utilizing Spectral Moment Analysis”
Defended April 2019.
Hillary is now an orthodontist in Portland, Oregon.

Mentored research awards

2019-2020 Stephanie Lumpkin, MD – post-doctoral fellow, UNC Sheps Center
Mentoring team, AHRQ F32 Individual Postdoctoral Award (#HS026363)

GRANTS

ACTIVE

- CDC U01DD001293-01-00 PI: Julie Daniels 07/01/21 – 06/30/26
United States Centers for Disease Control and Prevention (CDC)
Project: North Carolina Center for Autism and Developmental Disabilities Research and
Epidemiology (CADDRE): Study to Explore Early Development (SEED) Phase IV
\$ 1,170,225; 5-year funding period; 3%, yrs 1-5
Role: **Co-Investigator**
- 2020 Health Equity Innovations Fund PI: Elston Lafata 01/01/21 – 12/31/22
The Genentech Foundation
Project: Identifying Opportunities to Pursue Equity When Implementing Virtual Visits in
Oncology Care:
\$749,996; 4%, yr 1; 8%, yr 2
Role: **Co-Investigator**

COMPLETED

- AHRQ R36 Dissertation Award PI: Rachel Parry 6/1/21 – 10/31/22
RFA: AHRQ Health Services Research Dissertation Program (R36) (PA-18-765)
Project: Contraception After Pregnancy: Identifying Trends in Choice of Method & Time
to Initiation \$40,000; 16-month funding period; 0%
Role: **Mentoring team member**
- 2KR911702 PI: Alan Kinlaw 06/1/17 – 05/31/18
North Carolina Translational and Clinical Sciences (TraCS) Institute Pilot Grant
Project: Fluoroquinolone utilization before and after Food and Drug Administration boxed
warning in 2016 (\$2000; 1 year)
Role: **Principal Investigator**
- 2019 Endoscopic Research Award PI: Anne Peery 07/01/19 – 06/30/21
American Society of Gastrointestinal Endoscopists
Project: Endoscopists Across Specialties: Identifying Opportunities for Quality
Improvement (\$75,000; 10%, yrs 1-2)
Role: **Co-Investigator**
- 2KR1131908 PI: Katie Wouk 06/01/20 – 05/31/21
North Carolina Translational and Clinical Sciences (TraCS) Institute Pilot Grant
Project: Predictors of postpartum healthcare utilization and receipt of recommended health
services among underserved mothers in North Carolina (\$2000)
Role: **Co-Investigator and Faculty Advisor**
- CCR21701 PI: Zach Willis 02/01/18 – 01/31/19

Multi-site CTSA “Carolinas Collaborative” Translational Research Pilot Program

Project: Antibiotic prescribing in North Carolina before and after an FDA boxed warning on fluoroquinolones in 2016 (\$75,000; 1 year)

Role: Co-Investigator

- 1U01DP006327 PI: Sue Kirkman 09/30/18 – 09/29/20
Validation of Survey Questions to Distinguish type 1 and type 2 Diabetes among Adults with Diabetes (CDC RFA DP-17-002)
Project: Validation of Survey Questions to Distinguish type 1 and type 2 Diabetes among Adults with Diabetes (\$76,631; 2 years; 5% yrs 1-2)
Role: Co-Investigator
- 2KR1111801 PI: Hillary Lathrop 02/01/19 – 01/31/20
North Carolina Translational and Clinical Sciences (TraCS) Institute Pilot Grant
Project: Orthognathic Speech Pathology: Evaluating the effect of jaw discrepancies on disordered speech (\$2,000; 1 year)
Role: Co-Investigator
- Alternative payment models contract PI: Darren DeWalt 06/01/19 – 11/30/19
Blue Cross and Blue Shield of North Carolina contract with Cecil G. Sheps Center
Project: Developing alternative payment models for cancer care in North Carolina (40% salary coverage over 6 months)
Role: Co-Investigator
- 2KR911708 PI: Zach Willis 07/01/17 – 06/30/18
North Carolina Translational and Clinical Sciences (TraCS) Institute Pilot Grant
Project: Assessing variability of antibiotic prescribing for common pediatric infections in the UNC Health Care System (\$2000; 1 year)
Role: Co-Investigator
- T32 HS000032-28 PI: Tim Carey 09/01/16 – 01/31/18
Agency for Healthcare Research and Quality
National Research Service Award Post-doctoral Traineeship
Sponsor: Cecil G. Sheps Center for Health Services Research at the University of North Carolina at Chapel Hill
Role: Post-doctoral Trainee
- Pharmacoepidemiology Fellowship PI: Til Stürmer 08/01/13 – 07/31/15
Center for Pharmacoepidemiology
Pre-doctoral Trainee in Pharmacoepidemiology
Sponsor: Department of Epidemiology at the University of North Carolina at Chapel Hill and notable non-academic stakeholders
Role: Pre-doctoral Trainee
- T32 HD052468-05 PI: Anna Maria Siega-Riz 08/01/11 – 07/31/13
Eunice Kennedy Shriver National Institute of Child and Human Development

Pre-doctoral Trainee in Reproductive, Perinatal, and Pediatric Epidemiology
Sponsor: School of Public Health at the University of North Carolina at Chapel Hill
Role: Pre-doctoral Trainee

SERVICE

Service to University of North Carolina at Chapel Hill

- 2021- *Member*; Faculty Welfare Committee – Office of Faculty Governance
2022- *Chair*; Faculty Welfare Committee – Office of Faculty Governance

Service to University of North Carolina School of Pharmacy

- 2018- *Member*; Conflict of Interest Committee
2018-2021 *Member*; Appointment, Reappointment, Promotion, and Tenure (ARPT) Committee
2020-2021 *Member*; Pharmaceutical Sciences Research & Graduate Education Retreat Planning Committee

Manuscript reviews

- 2013- American Journal of Epidemiology (10)
2015- Epidemiology (12)
2016- Pharmacoepidemiology & Drug Safety (11) * Best reviewer (2018, 2020)
2017- Clinical Epidemiology (2)
2017- Journal of Urology (3)
2017- BMJ (3)
2017- Medical Care (3)
2018- Open Forum Infectious Diseases (1)
2019- Journal of Antimicrobial Chemotherapy (1)
2019- Clinical Infectious Diseases (4)
2020- Paediatric and Perinatal Epidemiology (1)
2021- International Journal of Environmental Research and Public Health (2)
2021- Scientific Reports (1)
2021- Journal of Perinatology (2)

Conference abstract reviews

- 2016- Society for Epidemiologic Research (~25 per year, annually)
2013- International Society for Pharmacoepidemiology (~50 per year, annually)

Professional society membership and participation, national and international

- 2012- Society for Epidemiologic Research
 • Lead Student Volunteer at two Annual Meetings (2013, 2014)
2012- Society for Pediatric and Perinatal Epidemiologic Research
2013- International Society for Pharmacoepidemiology
 • Bylaw & Policies Committee (2019-)
 • Education Committee (2015-)
 • Pediatrics Special Interest Group (2015-)

- Drug Utilization Research Group (2019-)
 - Core Working Group on Pediatric Off-Label Medicines Use (2017-)
- 2017- Academy Health

Other professional service

- 2020- *Member*; Data Safety Monitoring Board of “Optimizing Electronic Health Record Prompts with Behavioral Economics to Improve Prescribing for Older Adults” pragmatic trial, Brigham and Women’s Hospital

Other service to University of North Carolina at Chapel Hill

- 2011-2012 *President*; Epidemiology Student Organization
 2011-2014 *Senator, Epidemiology*; Graduate & Professional Student Federation
 2013-2014 *Chair of Appropriations Committee*; Graduate & Professional Student Federation
 2011-2012 *Co-President of UNC Chapter*; International Society of Pharmacoepidemiology
 2012-2013 *Co-Chair*; Reproductive, Perinatal, and Pediatric Epidemiology Seminar
 2011-2012 *Chair*; Pediatric and Perinatal Environmental Epidemiology Journal Club
 2011-2013 *Member*; Diversity and Inclusion Committee, Department of Epidemiology
 2011-2012 *Student representative, writer*; Newsletter committee for UNC Epidemiology
 2013- *Formal peer mentor*, four PhD students in UNC Department of Epidemiology
 - D. Chawla (2013-2018), J. Young (2014-2020), S. Drover (2015-2018), J. Yang (2016-)
 2015-2017 *Covenant mentor*, two undergraduate Covenant Scholars at UNC
 - A. Gragson (2015-2017), K. Cullinane (2015-2017)

Community service

- 2017- *Judge at annual science fair*; Jordan High School, Durham, NC.
 2021- *Accredited Interscholastic Coach (soccer, tennis, basketball)*; National Federation of State High School Associations.
 2021 *Head coach, soccer (Kingfishers U6)*; Rainbow League, Chapel Hill, NC.
 2021- *Assistant coach, boys soccer*; Githens Middle School, Durham, NC.
 2022- *Assistant coach, girls soccer*; Githens Middle School, Durham, NC.

OTHER COMPLETED TRAININGS AND CERTIFICATIONS

Mental Health First Aid

Mental Health First Aid (MHFA) is an eight-hour training that provides basic skills to help someone who is experiencing a mental health crisis, respond to substance use disorders, and identify professional resources that can provide additional care. For more information, see: <https://ssw.unc.edu/continuing-education/mental-health-first-aid/>.

HAVEN

The HAVEN training provides students, faculty, and staff with tools to support someone who has experienced sexual or interpersonal violence or stalking. For more information, see: <https://womenscenter.unc.edu/programs/haven-training/>.

Safe Zone

The Safe Zone program is designed to create a network of visible allies to people who identify as part of the LGBTIQ+ campus community. These trainings provide information and resources related to sexual orientation, gender identity, and gender expression. For more information, see: <https://lgbtq.unc.edu/programs/programs-education/safe-zone/>.

Green Zone

Green Zone training is for faculty, staff, and students who wish to learn more about the military affiliated student experience. The goals are to train members of the Carolina community to know more about the issues and concerns military-affiliated students face and to identify individuals available to assist this population, and help them identify and connect with the appropriate resources. Participants who complete the training will receive a placard to display in their office. For more information, see: <https://dos.unc.edu/student-veterans-resources/green-zone-training/>.

RESPONSIBLE EMPLOYEE

Alan Kinlaw is a designated Responsible Employee at UNC-Chapel Hill. This is sometimes referred to as a “mandatory reporter.” When someone discloses an incident of discrimination, harassment, or retaliation based on any protected status, sexual assault or sexual violence, sexual exploitation, interpersonal violence, or stalking to a Responsible Employee, that employee must report that information to any professional staff member in UNC’s Equal Opportunity and Compliance Office (EOC). The Responsible Employee must share as much information as they know, such as the date, time, and location of the incident; the names of the parties involved; a brief description of the incident; and whether the incident has already been reported to someone else.

The purpose of reporting an incident is to help ensure the safety and well-being of the person(s) affected. When UNC’s EOC receives a report, either a Report and Response Coordinator, the Title IX Compliance Coordinator, or an EOC staff member will reach out to the affected person via email to let them know about their rights to seek medical care and notify law enforcement, and their options for seeking support and

reporting the incident to the University. If the report involves a student as the affected person, the Report and Response Coordinator will reach out to the student. If the report involves an employee as the affected person, another staff member from EOC will contact the employee. The affected person can choose whether they want to meet with someone from EOC to discuss interim protective measures (e.g., no contact orders, changes to housing, changes to work schedules, academic accommodations) and reporting options, but they are not required to do so.

For more resources and information about discrimination, harassment, sexual violence, interpersonal violence, and stalking, see: <https://safe.unc.edu/>.