

# CURRICULUM VITAE

ALAN KINLAW

---

## CONTACT

Division of Pharmaceutical Outcomes and Policy, Eshelman School of Pharmacy  
University of North Carolina at Chapel Hill  
Kerr Hall, Room 2201 | Campus Box # 7573  
Chapel Hill, NC 27599-7573  
Office: +1-919-966-2747  
Email: akinlaw@unc.edu

## 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 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 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 B.S., Textile Engineering  
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 at Chapel Hill  
Eshelman 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- Carolinas Collaborative
- 2017- UNC Lineberger Comprehensive Cancer Center
- 2017- Outpatient Parenteral Antimicrobial Therapy (OPAT) Program
- 2016- 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- Aarhus University (Denmark), Department of Clinical Epidemiology
- 2010- UNC School of Public Health, Department of Epidemiology

#### **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 *Best reviewer of 2017*  
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*  
32<sup>nd</sup> 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 *8<sup>th</sup> 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

## PUBLICATIONS, PEER-REVIEWED

Also available at NCBI (<https://bit.ly/2LOzjj9>), Google Scholar (<http://bit.ly/2CaG2OI>), or ORCID (<https://bit.ly/2RWJ3Gh>)

(\* denotes that I was the lead methodologist for the project.)

1. Barnes EL, Jiang Y, Kappelman MD, Long MD, Sandler RS, **Kinlaw AC\***†, Herfarth HH†.  
Decreasing Colectomy Rate for Ulcerative Colitis in the United States between 2007 and 2016: A Time Trend Analysis.  
*Inflammatory Bowel Diseases* 2019; in press.  
† Kinlaw and Herfarth contributed equally and share last-author responsibilities.
2. 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* 2019; in press.
3. 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* 2019; in press.
4. Richardson DB, Keil AP, Cole SR, **Kinlaw AC**.  
Assessing Exposure-Response Trends Using the Disease Risk Score.  
*Epidemiology* 2019; in press.

5. 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; 2019 Sep 6. pii: S0016-5085(19)41303-6. PMID: 31499038. doi: 10.1053/j.gastro.2019.08.045
  
6. 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. doi: 10.1093/aje/kwz025.
  
7. **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.
  
8. 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. doi: 10.1093/aje/kwy020.
  
9. 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.
  
10. **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. doi: 10.1097/MLR.0000000000000858.
  
11. **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. 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.

12. **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. 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.
13. **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. doi: 10.1177/0009922816641366.
14. 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.
15. 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. doi: 10.1093/ije/dyv137.
16. 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. doi: 10.1371/journal.pone.0133657.
17. 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. doi: 10.1002/pds.3766.
18. 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. doi: 10.1097/AOG.0000000000000641.

19. 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. doi: 10.1111/ppe.12117.
20. 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.
21. 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.

#### **PUBLICATIONS, non-peer-reviewed**

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>

#### **MANUSCRIPTS CURRENTLY UNDER REVIEW**

1. Richardson DB, Cole SR, Keil AP, Edwards JK, **Kinlaw AC**.  
Standardizing Discrete Time Hazard Ratios with a Disease Risk Score.  
Under review, *American Journal of Epidemiology*.

**SELECTED REFEREED CONFERENCE PRESENTATIONS,**

**Oral (o), Poster (p), Under review (u)**

**\* denotes that I was the presenting author.**

- (o) Lumpkin ST, Strassle PD, Stitzenberg K, Lund JL, **Kinlaw AC**.  
Opioid prescribing in the emergency department after hospital discharge following colorectal surgery.  
Academic Surgical Congress; 2020.  
Orlando, FL USA.
- (p) Cummings DM, 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.
- (p) Boerneke R, 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.
- (p) Ciccone EJ, Miller MB, Weber DJ, Juliano JJ, Jhaveri R, Willis ZI, **Kinlaw AC** 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.
- (p) Mays E, **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.
- (p)\* Schranz AJ, **Kinlaw AC**, 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.



- (p)\* **Kinlaw AC**, 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. 35<sup>th</sup> International Conference on Pharmacoepidemiology; 2019. Philadelphia, PA USA.
- (o) Barnes EL, Kappelman MD, Long MD, Sandler RS, **Kinlaw AC**.  
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.
- (p) Willis ZI, Dusetzina SB, Anderson DJ, Pajewski NM, **Kinlaw AC**.  
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.
- (p) **Kinlaw AC**, Duncan AR, Farel CE, Eichholz A, Kufel W, Medlin T, Fletcher L, Marx AH (presenter) 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.
- (p) Ciccone EJ, **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.
- (o) **Kinlaw AC**, 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.
- (p) Guidry VT, **Kinlaw AC**, Hall D, Gray CL.  
Prevalence of asthma-related symptoms in adolescents living near industrial animal feeding operations in eastern 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.

- (p) Drover SSM, 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.
- (p) Mitchell AP, **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.
- (p) Mbah O, 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.
- (p) Ciccone EJ, 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.
- (p) Nwankwo O, 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.
- (p) Chundi V, 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.
- (o)\* **Kinlaw AC**, 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.

- (o)\* **Kinlaw AC**, 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.  
33<sup>rd</sup> International Conference on Pharmacoepidemiology; 2017.  
Montréal, QC, Canada.
- (p)\* **Kinlaw AC**, 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.
- (o)\* **Kinlaw AC**, 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.  
33<sup>rd</sup> National Research Service Award Trainees Conference; 2017.  
New Orleans, LA USA.
- (o)\* **Kinlaw AC**, 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.  
32<sup>nd</sup> International Conference on Pharmacoepidemiology; 2016.  
Dublin, Ireland.
- (p)\* **Kinlaw AC**, 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.  
32<sup>nd</sup> International Conference on Pharmacoepidemiology; 2016.  
Dublin, Ireland.
- (o)\* **Kinlaw AC**, Wu JM, Conover MM, Pate V, Jonsson Funk M.  
Antimuscarinic utilization in the United States pediatric population, 2000-2011.  
30<sup>th</sup> International Conference on Pharmacoepidemiology; 2014.  
Taipei, Taiwan.
- (o) **Kinlaw A**, 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.

- (o)\* **Kinlaw A**, 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.
- (p) Seamans MJ, **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.
- (p) Freburger JK, **Kinlaw AC**, Brookhart MA, Li D, Fang G, Bush M, Fine J, Stürmer.  
Comparative Effectiveness of High-Potency versus Moderate-Potency Statins in the Medicare Population: Accounting for Medication Persistence and Switching.  
Academy Health Annual Research Meeting; 2015.  
Minneapolis, MN USA.
- (p)\* **Kinlaw AC**, Wu JM, Conover MM, Jonsson Funk M.  
Comparative safety of antimuscarinics in the U.S. pediatric population, 2000-2012.  
Triangle Comparative Effectiveness Research Symposium; 2015.  
Durham, NC USA.
- (p)\* **Kinlaw A**, Wu J, Conover M, Jonsson Funk M.  
Comparative safety of antimuscarinics among adults in the United States, 2000-2011.  
30<sup>th</sup> International Conference on Pharmacoepidemiology; 2014.  
Taipei, Taiwan.
- (p)\* **Kinlaw AC**, 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.
- (p) Raghunathan K, **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.
- (p)\* **Kinlaw A**, Stürmer T, Sørensen HT, Lund JL.  
Changes in antibiotic prescribing in infants and young children in Denmark, 1999-2011.  
29<sup>th</sup> International Conference on Pharmacoepidemiology; 2013.  
Montréal, QC, Canada.
- (p)\* **Kinlaw A**, 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 RECORD

### *Lead Instructor*

- 2019 EPID 766, *Epidemiologic Research with Healthcare Databases*  
University of North Carolina at Chapel Hill, Department of Epidemiology  
Co-instructor: Dr. Jennifer Lund  
1 semester; 31 students (doctoral and master's students, post-docs, and faculty)

### *Teaching Assistantships*

- 2015 EPID 766, *Epidemiologic Research with Healthcare Databases*  
University of North Carolina at Chapel Hill, Department of Epidemiology  
Lead Instructor: Dr. Jennifer Lund  
1 semester; 30 doctoral and master's students
- 2013-2015 EPID 890, *Perspectives in Epidemiology and Public Health*  
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) and 10 (in 2014-2015)
- 2012-2013 EPID 718, *Epidemiologic Analysis of Binary Data*  
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) and 36 (in 2013)
- 2011 EPID 600, *Principles of Epidemiology for Public Health*  
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 two recitations

### *Short courses*

- 2017 Co-instructor, Pediatric Pharmacoepidemiology course  
“Leveraging granular birthdate information for studies of young children”  
1 hour teaching (out of 4-hour course), preparation of original teaching materials.  
Pre-conference course, 33<sup>rd</sup> International Conference on Pharmacoepidemiology;  
Montréal, QC, Canada.  
Co-instructors: Drs. Tim Beukelman, Daniel Horton, Tamar Lasky, Rachel Sobel.
- 2014-2017 Instructor, “Propensity scores and inverse probability weighting”  
4 hours teaching, preparation of original exercises using SAS and R;  
1-week unit of graduate-level course on epidemiologic methods (EPID 718).
  - Delivered each fall semester for 2014, 2015, and 2016.
  - Recorded video lectures and exercises used in fall semester of 2017.University of North Carolina at Chapel Hill, Department of Epidemiology.  
Lead instructor for semester-long course: Dr. Brian Pence.

2014 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.  
Aarhus University, Department of Clinical Epidemiology; Aarhus, Denmark.  
Co-instructor: Dr. Jennifer Lund.

*Invited lectures*

- 2019 Lecturer  
“Is censoring good enough? Methods to (more appropriately) handle competing events in gastrointestinal epidemiology studies”  
1 hour seminar.  
GI Epidemiology Conference, Center for Gastrointestinal Biology and Disease; University of North Carolina School of Medicine.
- 2019 Lecturer  
“Making (sense of) big data to examine antimicrobial stewardship efforts for better and safer prescribing”  
1 hour teaching.  
Weekly research seminar for Ph.D. students, faculty and staff (DPOP 899).  
Lead instructor: Dr. Jennifer Elston Lafata.  
University of North Carolina School of Pharmacy.
- 2019 Lecturer  
“Context and (Sometimes Big) Data for Epidemiologic Research of Medication Use, Effectiveness, and Safety”  
2 hours teaching.  
Summer seminar in the Innovations and Transformations in Pharmaceutical Sciences Program, for visiting undergraduate students from China.  
Lead instructor: Dr. Michael Jarstfer.  
University of North Carolina School of Pharmacy.
- 2019 Instructor  
“Proposal development: defining a clear research question”  
2 hours teaching.  
First-semester research methods course for Pharm.D. students (PHCY 624).  
Lead instructor for semester-long course: Dr. Craig Lee.  
University of North Carolina School of Pharmacy.
- 2018 Lecturer  
“Using electronic health record data to identify opportunities for antibiotic stewardship in the pediatric population”  
1 hour seminar.  
Pediatrics Special Interest Group Monthly Meeting;  
International Society for Pharmacoepidemiology (webinar).

- 2018      Lecturer  
 “Propensity Scores, Part Deux: Deciding When and How to Implement Them”  
 1 hour seminar.  
 GI Epidemiology Conference, Center for Gastrointestinal Biology and Disease;  
 University of North Carolina School of Medicine.
- 2018      Instructor  
 “Simulation studies for addressing research questions in reproductive, perinatal, and  
 pediatric epidemiology”  
 2 hours teaching, preparation of original exercises using SAS.  
 Advanced graduate-level course on reproductive/perinatal epidemiology (EPID 853).  
*Lead instructor for semester-long course: Dr. Stephanie Engel.*  
 Department of Epidemiology;  
 University of North Carolina School of Public Health.
- 2018      Lecturer  
 “Leveraging complex data to improve antibiotic stewardship practice and policy:  
 the intersection of informatics and epidemiologic methods”  
 1 hour seminar.  
 Division of Pharmaceutical Outcomes and Policy;  
 University of North Carolina School of Pharmacy.
- 2018      Lecturer  
 “Evaluating the impact of respiratory viral tests at a tertiary care facility:  
 an adventure in secondary data analysis”  
 1 hour seminar.  
 Cecil G. Sheps Center for Health Services Research;  
 University of North Carolina at Chapel Hill.
- 2016      Co-instructor  
 “Epidemiology of hypertensive diseases in pregnancy”  
 1 hour teaching.  
 Graduate-level course on reproductive/perinatal epidemiology (EPID 851).  
*Co-instructor for this class session: Dr. Stephanie Engel.*  
*Lead instructor for semester-long course: Dr. Andy Olshan.*  
 Department of Epidemiology;  
 University of North Carolina School of Public Health.
- 2016      Instructor  
 “Context and communication in epidemiologic research”  
 1 hour teaching.  
 Undergraduate-level course on writing in the natural sciences (ENGL 105I).  
*Lead instructor for semester-long course: Dr. Joseph Fletcher.*  
 Department of English & Comparative Literature;  
 University of North Carolina at Chapel Hill.

- 2016      Lecturer  
 “Cohort effects on antibiotic prescribing among infants in Denmark”  
 ½ hour seminar.  
 Royster Society Research Seminar;  
 Graduate School, University of North Carolina at Chapel Hill.
- 2015      Lecturer  
 “Epidemiologic and quasi-experimental approaches to study early life exposure to antibiotics and incident childhood asthma”  
 1 hour seminar.  
 Center for Environmental Health and Technology;  
 Brown University (Providence, RI).
- 2015      Instructor  
 “Implementing quasi-experimental study designs in epidemiology”  
 2 hours teaching.  
 Graduate-level course on pharmacoepidemiology (PPS 701).  
*Lead instructor for semester-long course: Dr. Daniela Moga.*  
 Departments of Epidemiology, Pharmacy Practice & Science;  
 University of Kentucky (Lexington, KY).
- 2015      Instructor  
 “Happiness and Health(care data) in Denmark”  
 1 hour teaching.  
 Graduate-level course on pharmacoepidemiology (PPS 701).  
*Lead instructor for semester-long course: Dr. Daniela Moga.*  
 Departments of Epidemiology, Pharmacy Practice & Science;  
 University of Kentucky (Lexington, KY).
- 2015      Instructor  
 “Quantifying nature? Numerical data and statistics in scientific research”  
 1 hour teaching.  
 Undergraduate-level course on writing in the natural sciences (ENGL 105I).  
*Lead instructor for semester-long course: Dr. Joseph Fletcher.*  
 Department of English & Comparative Literature;  
 University of North Carolina at Chapel Hill.
- 2014      Co-instructor  
 “Observational Research”  
 1 day teaching.  
 Introductory methods workshop for outcomes researchers and epidemiologists.  
*Co-instructors: Drs. Bradley Layton, Jennifer Lund, Til Stürmer.*  
 UCB; Brussels, Belgium.



- 2014 Instructor  
 “Marginal Structural Models”  
 1 hour teaching.  
 UNC-Merck-GSK Methodology Workshop.  
 Merck and Co.; Philadelphia, PA USA.
- 2012 Instructor  
 “Writing in Health and Medicine: Epidemiology and Public Health”  
 1 hour teaching.  
 Undergraduate-level course on writing in the natural sciences (ENGL 105I).  
*Lead instructor for semester-long course: Dr. Joseph Fletcher.*  
 Department of English & Comparative Literature;  
 University of North Carolina at Chapel Hill.

## MENTORING

### PhD advisor

- 2018- Joehl Nguyen, UNC Division of Pharmaceutical Outcomes and Policy  
 2019- Samantha Eiffert, UNC Division of Pharmaceutical Outcomes and Policy

### PhD dissertation committee member

- 2018- Matthew Dixon, UNC Division of Pharmaceutical Outcomes and Policy

### Master’s thesis/paper committee member

- 2018 Hillary Lathrop, DMD – MS candidate (post-doc) in UNC School of Dentistry  
 2019 Katherine Stafford, MBBS/BSc – MPH candidate in UNC School of Public Health

### Other academic mentoring

- 2019- Tainayah Thomas, MPH – PhD candidate in UNC Dept of Health Behavior  
 • *Mentoring team member, R36 Dissertation Award (AHRQ #)*  
 • *Key personnel (non-official member), PhD dissertation committee*
- 2019- Rachael Ross, MPH – PhD student in UNC Dept of Epidemiology  
 • *Primary mentor, Pediatric Infectious Diseases Society  
 Antimicrobial Stewardship Fellowship Award*
- 2019- Stephanie Lumpkin, MD – post-doctoral fellow at UNC Sheps Center  
 • *Mentoring team member, F32 Individual Postdoctoral Award  
 (AHRQ #)*
- 2019- Kathryn (Katie) Wouk, PhD – post-doctoral fellow at UNC Carolina Global  
 Breastfeeding Institute  
 • *Secondary mentor (primary mentor for Wouk: Alison Stuebe, MD MSc)*

## SERVICE

### *Invited manuscript reviews*

2013-	American Journal of Epidemiology (6)	
2015-	Epidemiology (11)	
2016-	Pharmacoepidemiology & Drug Safety (7)	** Best reviewer (2017)
2017-	Clinical Epidemiology (2)	
2017-	Journal of Urology (3)	
2018-	Medical Care (2)	
2018-	BMJ (3)	
2018-	Open Forum Infectious Diseases (1)	
2019-	Journal of Antimicrobial Chemotherapy (1)	

### *Invited conference abstract reviews*

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

### *Professional society membership and participation*

2012-	Society for Epidemiologic Research <ul style="list-style-type: none"><li>• Lead Student Volunteer at two Annual Meetings (2013, 2014)</li></ul>
2012-	Society for Pediatric and Perinatal Epidemiologic Research
2013-	International Society for Pharmacoepidemiology <ul style="list-style-type: none"><li>• Bylaw &amp; Policies (2019-)</li><li>• Education Committee (2015-)</li><li>• Pediatrics Special Interest Group (2015-)</li><li>• Drug Utilization Research Group (2019-)</li><li>• Core Working Group on Pediatric Off-Label Medicines Use (2017-)</li></ul>
2017-	Academy Health

### *University of North Carolina at Chapel Hill – as faculty member*

2018-	<i>Member</i> ; Conflict of Interest Committee, UNC School of Pharmacy
2018-	<i>Member</i> ; Appointment, Reappointment, Promotion, and Tenure (ARPT) Committee, UNC School of Pharmacy

### *University of North Carolina at Chapel Hill – as graduate student and post-doc*

2011-2012	<i>President</i> ; Epidemiology Student Organization
2011-2014	<i>Senator, Epidemiology</i> ; Graduate & Professional Student Federation
2013-2014	<i>Chair of Appropriations Committee</i> ; Graduate & Professional Student Federation
2011-2012	<i>Co-President of UNC Chapter</i> ; International Society of Pharmacoepidemiology
2012-2013	<i>Co-Chair</i> ; Reproductive, Perinatal, and Pediatric Epidemiology Seminar
2011-2012	<i>Chair</i> ; 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-), S. Drover (2015-), J. Yang (2016-)
- 2015-2017 *Formal mentor, two undergraduate Covenant Scholars at UNC*
  - A. Gragson (2015-2017), K.Cullinane (2015-2017)

## GRANT SUPPORT – ACTIVE

- **American Society of Gastrointestinal Endoscopists PI: Peery 7/1/2019 – 6/30/2021**  
*2019 Endoscopic Research Award*  
 Project: Endoscopists Across Specialties: Identifying Opportunities For Quality Improvement (\$75,000; 2-year funding period; 10%)  
 Role: Co-Investigator
- **2KR1111801 PI: Lathrop 2/1/2019 – 1/31/2020**  
*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
- **CCR21701 PI: Willis 2/1/2018 – 1/31/2019**  
*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; no salary)  
 Role: Co-Investigator
- **1U01DP006327 PI: Kirkman 9/30/2018 – 9/29/2020**  
 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%)  
 Role: Co-Investigator

## GRANT SUPPORT – COMPLETED

- **2KR911708 PI: Willis 7/2017 – 6/2018**  
*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
- **2KR911702 PI: Kinlaw 6/2017 – 5/2018**  
*North Carolina Translational and Clinical Sciences (TraCS) Institute Pilot Grant*

