

# Catherine Wiener

PHD STUDENT · EPIDEMIOLOGY

Gillings School of Public Health, University of North Carolina at Chapel Hill

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## Education

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### University of North Carolina at Chapel Hill

Chapel Hill, NC

#### PHD EPIDEMIOLOGY

August 2022 - present

- Advisor: Dr. Stephen R. Cole

#### MS BIostatISTICS

August 2017 - May 2019

- Advisor: Dr. Gary G. Koch

#### BS MATHEMATICS

August 2010 - August 2014

- BA English
- Minor in Mathematical Decision Sciences

## Professional Experience

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2022- **Research Fellow**, Center for Pharmacoepidemiology, UNC Gillings School of Global Public Health

2019- **Statistician**, Target RWE

2017-2019 **Graduate Teaching Assistant**, Department of Biostatistics, University of North Carolina at Chapel Hill

2014-2017 **Statistical Programmer**, Quintiles/Quintiles IMS

2010-2014 **Undergraduate Research Assistant**, Department of Biostatistics, University of North Carolina at Chapel Hill

## Publications

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### PUBLISHED

1. Wang, D., Robieson, W., Zhao, J., **Wiener, C.**, Koch, G. (2019). Statistical considerations in a delayed-start design to demonstrate disease modification effect in neurodegenerative disorders. *Pharmaceutical Statistics*, 18(4), 407–419
2. Cholera, R., Anderson, D., Raman, S. R., Hammill, B. G., DiPrete, B., Breskin, A., **Wiener, C.**, Rathnayaka, N., Landi, S., Brookhart, M. A., Whitaker, R. G., Bettger, J. P., Wong, C. A. (2021). Medicaid Coverage Disruptions Among Children Enrolled in North Carolina Medicaid From 2016 to 2018. *JAMA Health Forum*, 2(12)
3. Levintow, S. N., Reading, S. R., Noshad, S., Mayer, S. E., **Wiener, C.**, Eledath, B., Exter, J., Brookhart, M. A. (2022). Lipid Testing Trends Before and After Hospitalization for Myocardial Infarction Among Adults in the United States, 2008–2019. *Clinical Epidemiology*, 14, 737–748.
4. Breskin, A.\*, **Wiener, C.\***, Adimora, A. A., Brown, R. S., Landis, C., Reddy, K. R., Verna, E. C., Crawford, J. M., Mospan, A., Fried, M. W., Brookhart, M. A. (2023). Effectiveness of Remdesivir Treatment Protocols Among Patients Hospitalized with COVID-19: A Target Trial Emulation. *Epidemiology (Cambridge, Mass.)* **\*co-first authors**

### IN PREP

Identification conditions for the effect of treatment in the treated: an example based on the Northwest Germany Stroke Registry.

## Awards

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2022 **Research Fellowship**, Center for Pharmacoepidemiology, Gillings School of Public Health

## Presentations

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\* *presenting author*

### CONTRIBUTED PRESENTATIONS

**Wiener C**, Breskin A, Rathnayaka N, Cook A, Brookhart MA. In-hospital treatment patterns among patients hospitalized with COVID-19 in the United States. Poster presentation at the 38th International Conference on Pharmacoepidemiology & Therapeutic Risk Management, August 24-28, 2022 *First place Poster Spotlight Session - Drug Utilization Research*

**Wiener C**, Breskin A, Rathnayaka N, Cook A, Brookhart MA. In-hospital treatment patterns among patients hospitalized with COVID-19 in the United States. Poster presentation at the 38th International Conference on Pharmacoepidemiology & Therapeutic Risk Management, August 24-28, 2022 *First place Poster Spotlight Session - Drug Utilization Research*

Rathnayaka N, Breskin A, Cook A, **Wiener C**, Brookhart MA. Risk factors for mortality and intensive care requirements among pediatric patients hospitalized with COVID-19 in the United States. *Pharmacoepidemiology and Drug Safety* 2022;58-9.

Levintow SN, Reading SR, Noshad S, Mayer S, **Wiener C\***, Eledath B, Palagashvili T, Brookhart MA, Lipid testing trends before and after hospitalization for myocardial infarction among adults in the U.S., 2008-2019. Oral presentation at the ESC Congress, Virtual, August 27-30, 2021

**Wiener C\***, Levintow SN, Orroth KK, Gill K, Mullard A, Brookhart MA, McGrath LJ. Real world treatment patterns following the initiation of proprotein convertase subtilisin/kexin type 9 antibody inhibitors among adults in the United States, 2015-2019. Poster presentation at the 36th International Conference on Pharmacoepidemiology & Therapeutic Risk Management, Virtual, September 16-17, 2020

Kim M, Park A, McGrath L, et al. Trends in Osteoporosis Treatment Uptake and Persistence Among Postmenopausal Women in the U.S., 2010-2015. *Journal of the Endocrine Society* 2020;4(Supplement<sub>1</sub>) : *SUN* – 389.

Koch Nicholas B., Kearney EK, **Wiener C**, Koch GG, Lorbacher LD, Viprakasit D. A comparison of patient desired outcomes between pain and non-pain-focused patients following nephrolithiasis surgery. *Journal of Urology* 2019;201(Supplement 4):e263-e263.

Narang \* Gopal, Stephenson E, **Wiener C**, Koch G, Viprakasit D. Effectiveness of preventative counseling in recurrent stone formers. *Journal of Urology* 2019;201(Supplement 4):e174-e174.

## Research Experience

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### University of North Carolina at Chapel Hill

*Chapel Hill, NC*

ADVISOR: DR. GARY G. KOCH

*Aug. 2017 - May 2019*

- Thesis: A robust model to detect disease modification for a delayed-start design in neurodegenerative disorders

### University of North Carolina at Chapel Hill

*Chapel Hill, NC*

SUPERVISOR: DR. GARY G. KOCH

*2018-2019*

- UNC Dept. of Urology collaboration on stone surgery patient reported outcomes.
- UNC and Duke University collaboration analyzing cardiovascular data using various longitudinal methodologies.

## Professional Development

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### PROFESSIONAL MEMBERSHIPS

Society for Epidemiologic Research

International Society for Pharmacoepidemiology