

*Curriculum Vitae*

## Bethany Linnea DiPrete

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### EDUCATION

- PhD The University of North Carolina at Chapel Hill, Epidemiology 2020  
Dissertation: Prescription opioid use, opioid overdose, and links to syphilis diagnoses in North Carolina
- MS Duke University, Global Health 2014  
Thesis: The Relationship Between Stigma, Sexual Risk Behavior, and HIV Testing Among Men Who Have Sex with Men in Kolkata, India
- BA Columbia University, Psychology 2009

### PROFESSIONAL EXPERIENCE

- Research Assistant Professor, Department of Epidemiology 2022-Present  
University of North Carolina, Chapel Hill, North Carolina, USA
- Postdoctoral Research Associate in Epidemiology, Injury Prevention Research Center 2020-2021  
University of North Carolina, Chapel Hill, North Carolina, USA
- Research Fellow, Epidemiology 2020-2021  
NoviSci, Inc., Durham, North Carolina, USA
- Pre-Doctoral Trainee - Sexually Transmitted Diseases and HIV, Department of Medicine 2018-2020  
University of North Carolina, Chapel Hill, North Carolina, USA
- Teaching Assistant, Department of Epidemiology 2018-2019  
University of North Carolina, Chapel Hill, North Carolina, USA
- Graduate Research Assistant, Institute for Global Health and Infectious Diseases 2016-2020  
University of North Carolina, Chapel Hill, North Carolina, USA
- Graduate Research Assistant, Department of Epidemiology 2016-2020  
University of North Carolina, Chapel Hill, North Carolina, USA
- Project Manager 2014 - 2015  
Epic, Verona, Wisconsin, USA
- Teaching Assistant, Duke Global Health Institute 2014  
Duke University, Durham, North Carolina, USA
- Site Coordinator 2012, 2013  
Duke Engage - Kolkata, Kolkata, India

Clinical Study Coordinator, Department of Anesthesiology University of North Carolina, Chapel Hill, North Carolina, USA	2011 - 2012
Laboratory Research Assistant, Herbert Irving Comprehensive Cancer Center Columbia University Medical Center, Columbia University, New York, New York, USA	2009 - 2010
Simon's Fund Research Fellow, Division of Cardiology Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, USA	2008

## HONORS & AWARDS

2021 ICPE All Access Most Highly Rated Methods Abstract Submitted by a Student Award	2021
Sexually Transmitted Diseases and HIV Training Grant, UNC Pre-Doctoral Trainee	2018 - 2020
Duke Global Health Institute Merit Scholarship	2012 - 2014
Foreign Language Area Studies (FLAS) Fellowship in Hindi	2012 - 2013

## BIBLIOGRAPHY

### Peer-reviewed publications († indicates equal effort, \* indicates student)

1. **DiPrete BL**†, Oh G†, Moga DC, Dasgupta N, Slavova S, Slade E, Delcher C, Pence BW, Ranapurwala SI. Matching study design to prescribing intention: the prevalent new-user design in studies of abuse-deterrent opioid formulations. *Pharmacoepidemiology and Drug Safety*. In Press.
2. **DiPrete BL**, Dasgupta N, Moga DC, Oh G, Slavova S, Slade E, Delcher C, Pence BW, Ranapurwala SI. Abuse-deterrent formulations and opioid-related harms in North Carolina, 2010-2018. *American Journal of Epidemiology*. In Press.
3. Young JC, Pack K, Gibson T, Yoon F, **DiPrete BL**, Irwin DE, Cooper T, Bloemers S, Dasgupta N. ORACL: An Algorithm to Predict Death Using Insurance Claims Data. *American Journal of Epidemiology*. In Press.
4. Austin AE, Naumann RB, **DiPrete BL**, Geary S, Proescholdbell S, Jones-Vessey K. Pregnancy-associated homicide, suicide and unintentional opioid-involved overdose deaths, North Carolina 2018–2019. *Injury Prevention* Published Online First: 09 January 2024. doi: 10.1136/ip-2023-045112
5. **DiPrete BL**, Girman C, Mavros P, Breskin A, Brookhart MA. Characterizing imbalance in the tails of propensity score distributions. *Am J Epidemiol*. Feb 5 2024;193(2):389-403. doi:10.1093/aje/kwad200
6. Chagomerana MB, Harrington BJ, **DiPrete BL**, Wallie S, Maliwichi M, Wesevich A, Phulusa JN, Kumwenda W, Jumbe A, Hosseinipour MC. Three-year outcomes for women newly initiated on lifelong antiretroviral therapy during pregnancy - Malawi option B. *AIDS Res Ther*. Jun 12 2023;20(1):37. doi: 10.1186/s12981-023-00523-1.
7. Wohl S, Lee EC, **DiPrete BL**, Lessler J. Sample size calculations for pathogen variant surveillance in the presence of biological and systematic biases. *Cell Rep Med*. Apr 19 2023:101022. doi:10.1016/j.xcrm.2023.101022
8. Maierhofer CN, Ranapurwala SI, **DiPrete BL**, Fulcher N, Ringwalt CL, Chelminski PR, Ives TJ, Dasgupta N, Go VF, Pence BW. Intended and unintended consequences of opioid prescribing practices following two statewide policies in North Carolina, 2012-2018: A controlled interrupted time series analysis. *Drug and Alcohol Dependence*. Jan 1 2023;242:109727. doi:10.1016/j.drugalcdep.2022.109727
9. **DiPrete BL**, Ranapurwala SI, Maierhofer CN\*, Fulcher N, Dasgupta N, Chelminski PR, Ives TJ, Ringwalt CL, Go VF, Pence BW. Association of opioid dose reduction with opioid overdose and opioid use disorder among

- patients receiving high-dose long-term opioid therapy in North Carolina. *JAMA Network Open*. 2022;5(4):e229191. doi:10.1001/jamanetworkopen.2022.9191
10. Pettifor AE, **DiPrete BL**, Shook-Sa B, Lakshmanane P, Kuczynski K, Dittmer D, Aiello AE, de Silva AM, Weber DJ, Kim M, Seña AC, Jones C. A prospective study of asymptomatic SARS-CoV-2 infection among individuals involved in academic research under limited operations during the COVID-19 pandemic. *PLoS One*. 2022;17(4):e0267353. doi:10.1371/journal.pone.0267353
  11. Sasse S, Harrington B, **DiPrete BL**, Chagomerana M, Limarzi Klyn L, Wallie S, Maliwichi M, Jumbe A, Hoffman I, Rosenberg N, Tang JH, Hosseinipour MC, on behalf of the S4 study. Factors associated with a history of treatment interruption among pregnant women living with HIV in Malawi: A cross-sectional study. *PLoS One*. 2022;17(4):e0267085. doi:10.1371/journal.pone.0267085
  12. Bhushan NL, Stockton MA, Harrington BJ, **DiPrete BL**, Maliwichi M, Jumbe AN, Kulisewa K, Chagomerana MB, Pence BW, Gaynes BN, S4 Study Team, Hosseinipour MC. Probable perinatal depression and social support among women enrolled in Malawi's Option B+ Program: A longitudinal analysis. *J Affect Disord*. Mar 18 2022; doi:10.1016/j.jad.2022.03.017
  13. Cholera R, Anderson D, Raman SR, Hammill BG, **DiPrete BL**, Breskin A, Wiener C, Rathnayaka N, Landi S, Brookhart MA, Whitaker RG, Bettger JP, Wong CA. Medicaid Coverage Disruptions Among Children Enrolled in North Carolina Medicaid From 2016 to 2018. *JAMA Health Forum*. 2021;2(12):e214283-e214283. doi:10.1001/jamahealthforum.2021.4283
  14. Maierhofer CN, Ranapurwala SI, **DiPrete BL**, Fulcher N, Ringwalt CL, Chelminski PR, Ives TJ, Dasgupta N, Go VF, Pence BW. Association Between Statewide Opioid Prescribing Interventions and Opioid Prescribing Patterns in North Carolina, 2006-2018. *Pain Med*. Dec 11 2021; 22(12):2931-2940. doi:10.1093/pm/pnab181
  15. Ranapurwala SI, Ringwalt CL, Schiro S, McCort A, **DiPrete BL**, Pence BW, Marshall SM. State Medical Board Policy and Opioid Prescribing: A Controlled Interrupted Time Series. *American Journal of Preventive Medicine* 2021;60(3):343-351
  16. Harrington BJ<sup>†</sup>, **DiPrete BL**<sup>†</sup>, Jumbe AN, Ngongondo M, Limarzi L, Wallie SD, Chagomerana MB, Hosseinipour MC, S4 Study Team. Safety and efficacy of Option B+ ART in Malawi: few severe maternal toxicity events or infant HIV infections among pregnant women initiating tenofovir/lamivudine/efavirenz. *Tropical Medicine and International Health* 2019; 24(10):1221-1228
  17. **DiPrete BL**, Pence BW, Golin CE, Knight K, Flynn PM, Carda-Auten J, Groves JS, Powers KA, White BL, Napravnik S, Wohl DA. Antiretroviral adherence following prison Release in a Randomized Trial of the impACT Intervention to Maintain Suppression of HIV Viremia. *AIDS and Behavior* 2019; 23(9):2386-2395
  18. Hill LM, Golin CE, Gottfredson NC, Pence BW, **DiPrete BL**, Carda-Auten J, Groves JS, Napravnik S, Wohl D, Knight K, Flynn PM. Drug Use Mediates the Relationship Between Depressive Symptoms and Adherence to ART Among Recently Incarcerated People Living with HIV. *AIDS and Behavior* 2019; 23(8):2037-2047
  19. **DiPrete BL**, Pence BW, Bengtson AM, Moore RD, Grelotti DJ, O'Cleirigh C, Modi R, Gaynes BN. The Depression Treatment Cascade: Disparities by Alcohol Use, Drug Use, and Panic Symptoms Among Patients in Routine HIV Care in the United States. *AIDS and Behavior* 2019; 23(3):592-601
  20. Chagomerana MB, Miller WC, Tang JH, Hoffman IF, Harrington BJ, **DiPrete BL**, Wallie S, Jumbe A, Limarzi L, Hosseinipour MC. Prevalence of antiretroviral therapy treatment failure among HIV-infected pregnant women at first antenatal care: PMTCT Option B+ in Malawi. *PLoS One* 2018; 13(12):e0209052.
  21. **DiPrete BL**, Pence BW, Grelotti DJ, Gaynes BN. Measurement of depression treatment among patients receiving HIV primary care: Whither the truth? *J Affect Disord* 2018; 230:50-55.
  22. Quante M., Tu SP, Tomita H, Gonda T, Wang SS, Takashi S, Baik GH, Shibata W, **DiPrete BL**, Betz KS, Friedman R, Varro A, Tycko B, Wang TC. Bone marrow-derived myofibroblasts contribute to the mesenchymal stem cell niche and promote tumor growth. *Cancer Cell*. 2011; 19(2): 257-272

**Manuscripts in progress**

1. **DiPrete BL**, Ranapurwala SI, Powers KA, Pettifor AE, Delamater PL, Fulcher N, Pence BW. Long-term opioid therapy and risk of opioid overdose by derived clinical indication: an observational cohort study of privately insured patients in North Carolina, 2006-2018. *Under Review*.
2. Beltran TG\*, Pence BW, Fulcher N, Marshall SM, Nocera M, Maierhofer CN\*, **DiPrete BL**, Dasgupta N, Wu L, Edwards DA, TS, Chelminski P, Hincapie-Castillo J, Proescholdbell SK, Ranapurwala SI. Impact of two statewide policies in North Carolina on opioid prescribing among surgery and injury pain patients: A controlled interrupted time-series study, 2014-2019. *Under Review*.
3. Alam IZ\*, **DiPrete BL**, Pence BW, Planey AM, Marshall SM, Fulcher N, Ranapurwala SI. Opioid Reduction or Discontinuation and Self-Harm, Suicide Attempt and Suicide Death Among High-Dose Long-Term Opioid Therapy Patients in North Carolina, 2006-2018. *Under Review*.
4. Alam IZ\*, **DiPrete BL**, Pence BW, Planey AM, Marshall SM, Fulcher N, Ranapurwala SI. Associations Between Individual-level and Neighborhood-level Characteristics and Rapid Tapering or Discontinuation of Opioids among Patients Receiving High-dose Long Term Opioid Therapy in North Carolina. *Under Review*.
5. Remch M\*, **DiPrete BL**, Proescholdbell S, Cox MB, Austin AE. Drug-related criminal charges in North Carolina, 2017-2019. *Under Review*.
6. **DiPrete BL**, Pettifor AE, Lessler J, Jones C, Anderson J, Barzin A, Dittmer D. CORVASEQ: A surveillance network to monitor an evolving pandemic. *In preparation*.
7. **DiPrete BL**, Azman A, Perez-Saez J, Wohl S, Lessler J. Filling in the blanks: defining epidemiologically relevant units of cholera transmission in Africa. *In preparation*.
8. **DiPrete BL**, Lessler J, Jones C, Anderson J, Barzin A, Dittmer D, Pettifor AE. Designing a successful and sustainable pathogen genomic surveillance system. *In preparation*.
9. Song Z\*, **DiPrete BL**, Fulcher N, Miller V, Perera P, Pence BW, Ranapurwala SI. Association between rapid opioid dose tapering and polydrug overdose death among high-dose, long-term opioid therapy recipients in North Carolina between 2006-2018. *In preparation*.

**Presentations and Posters at Scientific Conferences**

1. Song Z\*, **DiPrete BL**, Fulcher N, Miller V, Perera P, Pence BW, Ranapurwala SI. Association between rapid opioid dose tapering and polydrug overdose death among high-dose, long-term opioid therapy recipients in North Carolina between 2006-2018. Accepted for presentation at Society for Epidemiologic Research Annual Meeting, Austin, Texas, June 2024 (Oral).
2. **DiPrete BL**, Azman A, Perez-Saez J, Wohl S, Lessler J. Combining epidemiologic and genomic data to define epidemiologically relevant units of cholera transmission in Africa. *Epidemics*<sup>9</sup> – 9<sup>th</sup> International Conference on Infectious Disease Dynamics, Bologna, Italy, November 2023 (Oral).
3. Lessler J, Wohl S, D’Agostino-McGowan L, **DiPrete BL**. Sampling considerations for molecular studies. *Epidemics*<sup>9</sup> – 9<sup>th</sup> International Conference on Infectious Disease Dynamics, Bologna, Italy, November 2023 (Poster).
4. **DiPrete BL**, Azman A, Perez-Saez J, Wohl S, Lessler J. Filling in the blanks: defining epidemiologically relevant units of cholera transmission in Africa. American Society of Tropical Medicine and Hygiene 2022 Annual Meeting, Seattle, Washington, October 2022 (Poster).
5. **DiPrete BL**, Ranapurwala SI, Maierhofer CN\*, Fulcher N, Dasgupta N, Chelminski PR, Ives TJ, Ringwalt CL,

- Go VF, Pence BW. Association of opioid dose reduction with opioid overdose and opioid use disorder among patients on high-dose long-term opioid therapy in North Carolina. 38<sup>th</sup> International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Copenhagen, Denmark, August 2022 (Oral).
6. **DiPrete BL**, Young JC, Dasgupta N, Pack K, Cooper T, Bloemers S, Pence BW, Irwin DE, Gibson T. External validation of a machine learning algorithm to distinguish death from disenrollment in claims data. 38<sup>th</sup> International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Copenhagen, Denmark, August 2022 (Poster).
  7. Maierhofer CN\*, Ranapurwala SI, **DiPrete BL**, Fulcher N, Ringwalt CL, Chelminski PR, Ives TJ, Dasgupta N, Go VF, Pence BW. Intended and unintended consequences of opioid prescribing practices following two statewide policies in North Carolina, 2012-2018: A controlled interrupted time series analysis. 38<sup>th</sup> International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Copenhagen, Denmark, August 2022 (Spotlight Poster, Presenting Author).
  8. Young JC, Dasgupta N, Pack K, **DiPrete BL**, Jonsson Funk M, Pate V, Cooper T, Bloemers S, Stürmer T, Lund JL, Irwin DE, Gibson T. Distinguishing Death from Disenrollment: Applying a Predictive Algorithm to Reduce Bias in Estimating the Risk of Rehospitalization. 38<sup>th</sup> International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Copenhagen, Denmark, August 2022 (Poster).
  9. Lei F\*, Moga DC, Slade E, Hammerslag LR, Dasgupta N, Lofwall MR, Freeman P, **DiPrete BL**, Slavova S. Patterns of buprenorphine initiation treatment for opioid use disorder and association with opioid-related overdose deaths. 38<sup>th</sup> International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Copenhagen, Denmark, August 2022 (Oral).
  10. **DiPrete BL**, Girman C, Mavros P, Breskin A, Brookhart MA. Characterizing imbalance in the tails of propensity score distributions. 37<sup>th</sup> International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Virtual Meeting, August 2021 (Oral).
    - 2021 ICPE All Access Most Highly Rated Methods Abstract Submitted by a Student Award
  11. **DiPrete BL**, Oh G, Moga DC, Dasgupta N, Slavova S, Slade E, Delcher C, Pence BW, Ranapurwala SI. Matching Study Design to Prescribing Intention: The Prevalent New User Design in Opioid Research. 37<sup>th</sup> International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Virtual Meeting, August 2021 (Poster).
  12. Oh G, **DiPrete BL**, Slavova S, Dasgupta N, Ranapurwala SI, Slade E, Delcher C, Moga DC. Characterizing patients using abuse-deterrent formulations of extended-release opioid analgesics. 37<sup>th</sup> International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Virtual Meeting, August 2021 (Poster).
  13. Maierhofer CN, Ranapurwala SI, **DiPrete BL**, Fulcher N, Ringwalt CL, Chelminski PR, Ives TJ, Dasgupta N, Go VF, Pence BW. Association between state policies and opioid prescribing patterns in North Carolina, 2006–2018. Society for Epidemiologic Research, Virtual Meeting, June 2021 (Oral).
  14. **DiPrete BL**, Singogo E, Limarzi L, Wallie S, Chagomerana M, Walker A, Jumbe A, Hosseinipour MC. Viral suppression at delivery among women re-initiating or newly initiating antiretroviral therapy through Option B+ in Malawi. Society for Epidemiologic Research, Virtual Meeting, December 2020 (Oral).
  15. **DiPrete BL**, Singogo E, Limarzi L, Wallie S, Chagomerana M, Walker A, Jumbe A, Hosseinipour MC. Viral suppression at delivery among women re-initiating or newly initiating antiretroviral therapy through Option B+ in Malawi. 24<sup>th</sup> International Workshop on HIV and Hepatitis Observational Databases, Sitges, Spain, March 2020. (Poster - Canceled due to SARS-CoV-2 pandemic).
  16. Jumbe A, Singogo E, **DiPrete BL**, Harrington BJ, Wallie SD, Chagomerana M, Phiri T, Limarzi L, Chinula L, Phiri S, Tang J, Hosseinipour MC. Early experiences of switching to dolutegravir in women enrolled in Option B+, Malawi. 14<sup>th</sup> International Conference on HIV Treatment, Pathogenesis and Prevention Research in Resource-Limited Settings, INTEREST, Virtual Meeting, December 2020 (Poster).

17. Sasse S, Kudowa E, Harrington BJ, Chagomerana M, **DiPrete BL**, Wallie S, Jumbe A, Makonokaya D, Msika A, Hosseinipour MC, On behalf of the S4 study group. Reasons for defaulting and prolonging return to care in a cohort of pregnant women reinitiating HIV treatment under Option B+. 10th IAS Conference on HIV Science (IAS 2019), Mexico City, Mexico, July 2019 (Poster).
18. Jumbe A, **DiPrete BL**, Harrington BJ, Maliwichi M, Wallie S, Phiri T, Phulusa J, Limarzi L, Klyn B, Chinula L, Tang J, Hosseinipour M. Timing of ART initiation and pregnancy outcomes among women initiating ART through Option B+ in Malawi. 12th International Workshop on HIV Treatment, Pathogenesis, and Prevention Research in Resource-limited Settings; INTEREST, Kigali, Rwanda, June 2018 (Poster).
19. Hill LM, Golin CE, Gottfredson NC, Pence BW, **DiPrete BL**, Carda-Auten J, Groves JS, Napravnik S, Wohl DA, Knight K, Flynn PM. Mediators of the relationship between symptoms of anxiety and depression and antiretroviral adherence after prison release. 13th International Conference on HIV Treatment and Prevention Adherence in Miami Beach, Florida, June 2018 (Poster).
20. **DiPrete BL**, Pence BW, Golin C, Knight K, Flynn P, Carda-Auten J, Groves J, Powers K, Gould M, White B, Napravnik S, Wohl D. Antiretroviral Adherence over Six Months Following Prison Release in a Randomized Trial of the imPACT Intervention to Maintain Suppression of HIV Viremia. 12th International Conference on HIV Treatment Adherence, Miami, FL, June 2017 (Oral).

### Invited Presentations

1. *CORVASEQ: A Network for Tracking SARS-CoV-2 Variants in North Carolina*. 2022 North Carolina Partnership for Excellence in Applied Epidemiology Symposium, “Telling Your Story: Communicating Health Data.” Chapel Hill, North Carolina, November 2022.

### Doctoral dissertation

**DiPrete BL**. Prescription opioid use, opioid overdose, and links to syphilis diagnoses in North Carolina. Dissertation, the University of North Carolina at Chapel Hill. Ann Arbor: ProQuest/UMI, 2020 (ProQuest document ID 2485545151).

### TEACHING

<b>Instructor, EPID 795</b> Data in Public Health University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA	Fall 2023
<b>Co-Instructor, EPID 799C</b> Problem Solving Seminar in Advanced Infectious Disease Epidemiology University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA	Fall 2023
<b>Section Instructor, EPID 710</b> Fundamentals of Epidemiology, MPH@UNC (virtual) University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA	Summer Term I, 2023
<b>Co-Instructor, EPID 799B</b> Problem Solving Seminar in Advanced Infectious Disease Epidemiology University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA	Spring 2023
<b>Teaching assistant, EPID 718</b> <b>Analytic Methods in Observational Epidemiology</b> University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA	2018, 2019

**Teaching assistant, GLHLTH 708** 2014  
**Global Health Research: Advanced Epidemiologic Methods**  
 Duke University, Durham, North Carolina, USA

**Teaching assistant, GLHLTH 707** 2014  
**Global Health Research: Epidemiologic Methods II**  
 Duke University, Durham, North Carolina, USA

## STUDENT ADVISING

Epidemiology PhD Committee Member:

1. Ishrat Alam, *graduated December 2023*

Other advising:

1. Zoey Song, graduate research assistant in pharmacoepidemiology/injury epidemiology

## GRANTS AND CONTRACTS

### Ongoing

**DHHS Centers for Disease Control and Prevention (CDC)** 9/2023-9/2028  
**Justin Lessler (PI)** \$8,846,366

**Atlantic Coast Center for Infectious Disease Dynamics and Analytics**

This center aims to advance the state of the art in research and practice using modeling and analytics to control and respond to infectious disease threats, with a focus on ensuring that analytic outputs are relevant to those setting public health policy across scales (i.e., from the national to the community level). The team also leads the Coordinating Center that organizes collaboration among all thirteen Centers of Innovation, Integration, and Implementation funded by this mechanism.

**Role: Key Participant** 17% FTE Year 1-2, 15% FTE Years 3-5  
 1-NU38-FT000012-01

**Bill and Melinda Gates Foundation** 10/2022-9/2025  
**Andrew Azman, Johns Hopkins University (Sponsor PI)** \$182,038

**Justin Lessler, UNC (Site PI)**

**Cholera Burden and Transmission Modeling II**

This project aims to improve understanding of key cholera transmission units in Africa and transmission of cholera between those units using a combination of genomic and epidemiologic data.

**Role: Investigator** 30% FTE Year 1, 50% FTE Years 2-3  
 INV044865

**DHHS Centers for Disease Control and Prevention** 9/2022-9/2025  
**Shabbar Ranapurwala (PI)** \$349,978

**Risk and Protective Factors of Polydrug Overdose in North Carolina**

This project aims to define polydrug overdose mortality rates for four key target populations of patients in North Carolina, define clinical predictors of polydrug overdose mortality risk, and identify prescription opioid pain management trajectories associated with polydrug overdose in pain patients.

**Role: Investigator** 20% FTE  
 R01CE00347101

### Completed

**DHHS Centers for Disease Control and Prevention** 7/2021-6/2023

**Audrey Pettifor, Dirk Dittmer, and Amir Barzin (co-PIs)****North Carolina CORVASEQ (Coronavirus Variant Sequencing) Surveillance Project**

This project aims to create a surveillance network for SARS-CoV-2 genomic sequencing in North Carolina and monitor emergence and spread of SARS-CoV-2 variants in North Carolina.

**Role: Investigator** 60% FTE

*Principal Investigator of COVID-19 UNC At Home sub-study*

NU50CK000530

**Bill and Melinda Gates Foundation**

7/2018-11/2022

**Justin Lessler (PI)****Harnessing Synergies between Epidemiologic and Genetic Data to Understand Cholera Transmission in Africa**

This project aims to improve our understanding of cholera transmission in Africa by combining epidemiological and molecular data to characterize spatial units of cholera transmission with a goal of improving cholera risk forecasts and resource allocation.

**Role: Investigator** 30% FTE 01/2022-11/2022

OPP1195157

**US Food and Drug Administration**

9/2019-9/2022

**Nabarun Dasgupta, Svetla Slavova (MPI)****Methodological Advances in Evaluating Abuse-Deterrent Opioid Analgesics**

T1: Evaluate and compare methods to address confounding by indication in post-market ADF evaluation

T3: Accuracy of mortality outcomes in linked claims data

**Role: Postdoctoral Research Associate** 09/2020-12/2021

**Investigator** 01/2022-09/2022

HHSF223201810183C

**National Institute of Allergy and Infectious Diseases**

8/2018-7/2020

**Adaora Adimora (PI)****Training in Sexually Transmitted Diseases and HIV**

**Role: Pre-Doctoral Trainee**

T32AI007001

**MEMBERSHIPS**

International Society for Pharmacoepidemiology

2021-Present

Society for Epidemiologic Research

2020-Present

**SERVICE****Service to the Department of Epidemiology**

Faculty Panelist, Prospective PhD Student Open House, Infectious Disease and Injury Epidemiology, Fall 2023

Pre-tester for the Department of Epidemiology Infectious Disease Substantive Qualifying Exam, 2023

Pre-tester for the Department of Epidemiology Methods Qualifying Exam, 2019

Epidemiology student panel for the Graduate Program Review Site Visit, 2017

Student panels for incoming and current students in the Department of Epidemiology, 2017-2020

Epidemiology Student Organization, 2016-2017

**Service to the University**



Member of the UNC COVID-19 On Campus Modeling Group Fall 2020-Spring 2021

**PEER REVIEW ACTIVITIES**

AIDS & Behavior, Annals of Internal Medicine, JAMA Network Open, Nature Genetics, BMJ Open, PLOS ONE, Journal of Addiction Medicine

Abstract reviewer, 38<sup>th</sup> International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE 2022)