

## SHABBAR I. RANAPURWALA, PhD, MPH, BHMS

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### EDUCATION

2014 PhD, Epidemiology  
University of North Carolina, Chapel Hill, NC, USA  
2009 MPH, Environmental Health  
Western Kentucky University, Bowling Green, KY, USA  
2004 BHMS (Bachelor of Homoeopathic Medicine and Surgery),  
Maharashtra University of Health Sciences, Nashik, India

### PROFESSIONAL EXPERIENCE

10/2020 – present Senior Research Scholar, Child Trends, Bethesda, MD.  
04/2020 – present Assistant Director for Research Methods, Injury Prevention Research Center, UNC-CH.  
10/2016 – present Research Assistant Professor, Department of Epidemiology, and Core Faculty, Injury Prevention Research Center, University of North Carolina at Chapel Hill, NC.  
11/2016 – present Adjunct Assistant Professor, Epidemiology, University of Iowa, Iowa City, IA.  
06/2014 – 09/2016 Postdoctoral Research Scholar, Injury Prevention Research Center, College of Public Health, University of Iowa, Iowa City, IA.  
09/2010 – 05/2014 Graduate Research Trainee, Divers Alert Network (DAN), Durham, NC.  
06/2010 – 08/2010 Data Analyst, North Carolina Institute for Public Health, University of North Carolina, Chapel Hill, NC.  
08/2009 – 05/2009 Instructor, Department of Liberal Arts and Science, Western Kentucky University Community College, Bowling Green, KY  
02/2008 – 05/2009 Graduate Research Assistant, Department of Public Health, Western Kentucky University, Bowling Green, KY.  
02/2009 – 05/2009 Intern, Kentucky Department of Environmental Protection, Division of Water, Bowling Green, KY.  
12/2008 – 01/2009 Environmental Health Intern, International Health and Human Service Learning Program – Belize 2009, CHHS, Western Kentucky University in Gales Point, Belize.  
01/2007 – 08/2007 Resident Medical Officer, Cardiology, Dharmadhikari Hospital, Nagpur, India.  
11/2005 – 01/2007 Senior Resident Medical Officer, KRIMS Hospital, Nagpur, India.  
01/2005 – 12/2005 Resident Intern, Nagpur College of Homoeopathy & Hospital, Nagpur, India.

### AWARDS AND HONORS

2021 NC DHHS Secretary's team award for Proactive Communication to NC Justice & Health Workgroup that includes 20 members (including myself) from the NC DHHS (DMH, DPH, DPS) and UNC-CH  
2019 Chancellor's 2019 Faculty Entrepreneurship Workshop invited participant, University of North Carolina at Chapel Hill, NC  
2016 Clinical Trials, Statistical, and Data Management Center Poster Award for the poster: *Predictors of injury in a farm vehicle crash: modifiable and non-modifiable factors*. College of Public Health Research Week, University of Iowa, Iowa City, IA  
2016 Rural Policy Research Institute Poster Award for the poster: *Predictors of injury in a farm vehicle crash: modifiable and non-modifiable factors*. College of Public Health Research Week, University of Iowa, Iowa City, IA  
2015 Collegiate Poster Award for the poster entitled: *To report or not to report? Effect on Crime Victimization*. College of Public Health Research Week, University of Iowa, Iowa City, IA  
2014 Delta Omega Theta Chapter Service Award for service and leadership, Gilling's School of Global Public Health, University of North Carolina, Chapel Hill, NC  
2013 Robert Verhalen endowed scholarship for Injury Prevention and Trauma Management, Gilling's School of Global Public Health, University of North Carolina, Chapel Hill, NC  
2013 Class of 2013 scholarship, Gilling's School of Global Public Health, University of North Carolina, Chapel Hill, NC

- 2013 Society for Public Health Education (SOPHE)/ Center for Disease Control and Prevention (CDC) Unintentional Injury Prevention Fellowship: 2013-2014
- 2009 Outstanding Graduate Student for Environmental Public Health, College of Health and Human Services, Western Kentucky University, Bowling Green, KY
- 2008 World Toppers scholarship, travel and study for the 2009 International Health and Human Service-Learning Program, Western Kentucky University, Bowling Green, KY
- 2008 College of Health and Human Services travel scholarship for the 2009 International Health and Human Service-Learning Program, Western Kentucky University, Bowling Green, KY

## PROFESSIONAL MEMBERSHIPS

- 2014 – Society for Advancement of Violence and Injury Research
- 2011 – Society for Epidemiologic Research
- 2009 – American Public Health Association

## PUBLICATIONS

### Peer Reviewed Journals (\*Denotes that the first author was an advisee or student mentee)

1. \*Blackburn NA, Joniak-Grant E, Nocera MA, Dorris SW, Dasgupta N, Chelminski PR, Carey TS, Wu LT, Edwards DA, Marshall SW, **Ranapurwala SI**. Implementation of mandatory opioid prescribing limits in North Carolina: Healthcare administrator and prescriber perspectives. *BMC Health Serv Res*. 2021 Nov 3;21(1):1191.
2. \*Sivaraman J, Greene SB, Naumann RB, Proescholdbell SK, **Ranapurwala SI**, Marshall SW. Association between medical diagnoses and suicide in a Medicaid beneficiary population, North Carolina 2014-2017. *Epidemiology*, 2021 (in press).
3. \*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. *Pain Med*. 2021 Jun 27:pnb181. doi: 10.1093/pm/pnb181.
4. \*Graham LM, **Ranapurwala SI**, Zimmer C, Macy RJ, Rizo CF, Lanier PL, & Martin SL (2021). Disparities in potential years of life lost due to intimate partner violence: Data from 16 states for 2006–2015. *PLoS ONE*, 16(2): e0246477. <https://doi.org/10.1371/journal.pone.0246477>.
5. **Ranapurwala SI**, Ringwalt CL, Pence BW, Schiro S, Fulcher N, DiPrete BL, Marshall SW. State Medical Board Policy and Opioid Prescribing: A Controlled Interrupted Time Series. *Am J Prev Med*. 2020. [Epub: 10 December 2020. doi: 10.1016/j.amepre.2020.09.015]
6. \*Sivaraman J, Marshall SW, **Ranapurwala SI**. State firearm laws, race and law enforcement-related deaths in 16 US states: 2010-2016. *Inj Prev*. 2020;26(6):569-572. [Epub: 16 September 2020. doi: 10.1136/injuryprev-2020-043681]
7. Cholera R, **Ranapurwala SI**, Linton J, Shmuel S, Miller-Fitzwater A, Best D, Simha S, Flower KB. Healthcare utilization among Latinx children before and after 2017 executive actions on immigration. *Pediatrics*. 2020 Oct 23:e20200272. doi: 10.1542/peds.2020-0272.
8. Geary S, Graham L, Moracco KE, **Ranapurwala SI**, Proescholdbell SK, Macy R. Understanding intimate partner violence related deaths in North Carolina: North Carolina Violent Death Reporting System, 2011-2015. *NC Med J*. 2020; 8(4):12-19.
9. Borschmann R, Tibble H, Spittal MJ, Preen D, Pirkis J, Larney S, Rosen DL, Young JT, Love AD, Altice FL, Binswanger IA, Bukten A, Butler T, Chang Z, Chen CY, Clausen T, Christensen PB, Culbert GJ, Degenhardt L, Dirkzwager A, Dolan K, Fazel S, Fischbacher C, Giles M, Graham L, Harding D, Huang YF, Huber F, Karaminia A, Keen C, Kouyoumdjian FG, Lim S, Møller L, Moniruzzaman A, Morenoff J, O'Moore E, Pizzicato LN, Pratt D, Proescholdbell SK, **Ranapurwala SI**, Shanahan ME, Shaw J, Slaunwhite A, Somers JM, Spaulding AC, Stern MF, Viner KM, Wang N, Willoughby M, Zhao B, Kinner SA. The Mortality After Release from Incarceration Consortium (MARIC): Protocol for a multi-national, individual participant data meta-analysis. *Int J Popul Data Sci*. 2020;5(1):6-13.
10. Register-Mihalik JK, Guskiewicz KM, Marshall SW, McCulloch KL, Mihalik JP, Martin Mrazik, Murphy I, Naidu D, **Ranapurwala SI**, Schneider K, Gildner P, McCrea M, and Active Rehab Study Consortium Investigators. Methodology and implementation of a randomized controlled trial (RCT) for early post-concussion rehabilitation: The Active Rehab Study. *Front Neurol*. 2019; 10:1176.
11. Brinkley-Rubinstein L, Caves JJ, Junker G, Rosen D, Proescholdbell SK, Shanahan ME, **Ranapurwala SI**. Association of restrictive housing during incarceration with post-release mortality. *JAMA Netw Open*. 2019 Oct 2;2(10):e1912516.

12. \*Wong E, **Ranapurwala SI**. Cardiovascular Risk Associated with Medical Use of Opioids and Cannabinoids. *Curr Cardiovasc Risk Rep* (2019) 13: 30. (Invited Systematic Review).
13. Naumann RB, Durrance CP, **Ranapurwala SI**, Austin AE, Proescholdbell SK, Childs R, Marshall SW, Kansagra S, Shanahan ME. Impact of a community-based naloxone distribution program on opioid overdose death rates. *Drug Alcohol Depend*. 2019 Nov 1;204:107536. Epub 2019 Aug 30..
14. **Ranapurwala SI**, Young T, Wu H, Peek-Asa C, Cavanaugh JE, Ramirez MR. Public health application of predictive analysis: Forecasting the risk of farm crash injuries. *Inj Epidemiol*. 2019. 6(1); 31.
15. **Ranapurwala SI**. Identifying and addressing confounding bias in violence prevention epidemiology. *Curr. Epidemiol Report*. June 2019. 6(2); 200-207.
16. \*Sivaraman J, **Ranapurwala SI**, Moracco KE, Marshall SW. Impact of firearm regulatory strictness on intimate partner homicide and homicide-suicide. *Am J Prev Med*. 2019 Jan;56(1):125-133. doi: 10.1016/j.amepre.2018.09.007.
17. Bernard SA, Chelminski PR, Ives TJ, **Ranapurwala SI**. The Management of Pain in the United States— Implications for the Opioid Epidemic (invited review). *Health Serv Insights*. 2018 Dec 26;11:1178632918819440. doi: 10.1177/1178632918819440.
18. **Ranapurwala SI**, Shanahan ME, Alexandridis AA, Proescholdbell ST, Naumann RB, Edwards D, Marshall SW. Opioid overdose mortality among former North Carolina inmates: A retrospective cohort 2000-2015. *Am J Public Health*. 2018 Sep;108(9):1207-1213. doi: 10.2105/AJPH.2018.304514. Epub 2018 Jul 19.
19. **Ranapurwala SI**, Naumann RB, Austin AE, Dasgupta N, Marshall SW. Methodologic limitations of prescription opioid safety research and recommendations for improving the evidence base. *Pharmacoepidemiol Drug Saf*. 2019 Jan;28(1):4-12. doi: 10.1002/pds.4564. Review.
20. **Ranapurwala SI**, Kucera KL, Denoble PJ. The healthy diver: A cross-sectional survey to evaluate the health status of recreational scuba diver members of Divers Alert Network (DAN). *PLoS ONE*. 2018. 13(3): e0194380.
21. **Ranapurwala SI**, Carnahan R, Brown G, Hinmann J, Casteel C. Impact of prescription monitoring program on opioid pain reliever prescribing patterns in Iowa. *Pain Med*. 2018. doi: 10.1093/pm/pny029. [Epub ahead of print]
22. Brinkley-Rubenstein L, Macmadu A, Marshall B, Heise A, **Ranapurwala SI**, Rich JD, Green TC. Risk of fentanyl-involved overdose among those with past year incarceration: Findings from a recent outbreak of illicit synthetic fentanyl overdose in 2014 and 2015. *Drug Alcohol Depend*. 2018 Feb 9;185:189-191. doi: 10.1016/j.drugalcdep.2017.12.014. [Epub ahead of print]
23. Rosenberg M, **Ranapurwala SI**, Townes A, Bengtson AM. Do Black Lives Matter in public health research and training? *PloS ONE*. 2017; Oct 10;12(10):e0185957.
24. **Ranapurwala SI**, Wing S, Poole C, Kucera KL, Marshall SW, Denoble PJ. Mishaps and unsafe conditions in recreational scuba diving and pre-dive checklist use: A prospective cohort study. *Inj Epidemiol*. 2017 Dec;4(1):16. doi: 10.1186/s40621-017-0113-z. Epub 2017 Jun 5.
25. **Ranapurwala SI**, Peek-Asa C, Casteel C. Volunteering in Adolescence and Adult Delinquency: A Longitudinal Analysis from the Add Health Study. *Inj Epidemiol*. 2016 Dec;3(1):26. PMID: 27807807.
26. **Ranapurwala SI**, Denoble PJ, Poole C, Marshall SW, Kucera KL, Wing SB. Factors influencing adherence to pre-dive checklists among recreational scuba divers. *Undersea Hyperb Med*. 2016;43(7):827-32.
27. **Ranapurwala SI**, Mello ER, Ramirez MR. A GIS-based matched case-control study of road characteristics in farm vehicle crashes from nine Midwestern US states. *Epidemiology*. 2016;27(6):827-34. [Epub: Jul 27, 2016] doi: 10.1097/EDE.0000000000000542. PMID: 27468005.
28. **Ranapurwala SI**, Berg MT, Casteel C. Reporting crime victimizations to the police and the incidence of future victimizations: A longitudinal study. *Plos One*. 2016; 11(7):e0160072. doi: 10.1371/journal.pone.0160072. PMID: 27466811.
29. **Ranapurwala SI**, Denoble PJ, Poole C, Marshall SW, Kucera KL, Wing S. The effect of using a pre-dive checklist on the incidence of diving mishaps in recreational scuba diving: A cluster randomized trial. *International Journal of Epidemiology*, 2016; 45(1):223-231. [Epub: Nov 3, 2015]. doi: 10.1093/ije/dyv292. PMID: 26534948.
30. Hatzenbuehler ML, Schwab-Reese L, **Ranapurwala SI**, Hertz M, Ramirez MR. Anti-Bullying Policies Reduce the Risk of Bullying Victimization: A State-Level Analysis. *JAMA Pediatrics*, 2015; 169(10):e152411. [Epub: Oct 5, 2015] doi: 10.1001/jamapediatrics.2015.2411. PMID: 26437015.
31. **Ranapurwala SI**, Bird N, Vaithyanathan P, Denoble PJ. Scuba diving injuries among Divers Alert Network members 2010-2011. *Diving and Hyperbaric Medicine*, 2014; 44(2):79-85. PMID: 24986725.

32. Denoble PJ, Nelson CL, **Ranapurwala SI**, Caruso JL. Prevalence of left ventricular hypertrophy in scuba diving and traffic accident victims. *Undersea and Hyperbaric Medicine*, 2014; 41 (2):127-33. PMID: 24851550.
33. Zanchi J, Ljubkovic M, Denoble PJ, Dujic Z, **Ranapurwala S**, Pollock NW. Influence of repeated daily diving on decompression stress. *International Journal of Sports Medicine*, 2014; 35(6):465-8. doi: 10.1055/s-0033-1334968. PMID: 23771833.
34. Denoble PJ, **Ranapurwala SI**, Vaithyanathan P, Clarke RE, Vann RD. Per-capita claims rates for decompression sickness among insured Divers Alert Network members. *Undersea and Hyperbaric Medicine*, 2012; 39(3):709-15. PMID: 22670551.
35. Lartey GK, Habib F, **Ranapurwala SI**, Bowles T. Health Departments' Activities in Promoting Motor Vehicle Safety Among Children. *American Journal of Health Studies*, 2008; 23(3):124-29.

*In review*

36. **Ranapurwala SI**, Figgatt MC, Remch M, Junker G, Brown C, Brinkley-Rubinstein L, Rosen DL, Cox ME, Proescholdbell SK. Fentanyl takes over: opioid epidemic among formerly incarcerated persons in North Carolina. (R&R)
37. \*Wolff CS, Naumann RB, Golightly YM, Wiebe DJ, **Ranapurwala SI**, Marshall SW. Z-Score Burden Metric: A New Method for Assessing the Burden of Injury, Violence, and Other Causes of Mortality and Morbidity in Populations. (R&R)
38. **Ranapurwala SI**, Alam IZ, Pence BW, Carey TS, Christensen S, Clark M, Chelminski PR, Wu LT, Greenblatt LH, Korte JE, Wolfson M, Douglas HE, Bowlby LA, Capata M, Marshall SW. Development and validation of an electronic health records-based opioid use disorder algorithm by expert clinical adjudication. (R&R)
39. \*Sivaraman J, **Ranapurwala SI**, Proescholdbell SK, Naumann RB, Greene SB, Marshall SW. Suicide typologies among Medicaid beneficiaries, North Carolina 2014-2017.
40. LeMasters K, **Ranapurwala SI**, Maner M, Nowotny KM, Petersen M, Brinkley-Rubinstein L. COVID-19 Community Spread and Consequences for Prison Case Rates.

**Books and chapters**

1. Denoble PJ, **Ranapurwala SI**, Vaithyanathan P, Bird N. Prevalence of sudden cardiac death risk factors in scuba divers – an online survey. In the proceedings of the 4<sup>th</sup> Conference on Diving Physiology, Technology and Hyperbaric Medicine. Japanese Society of Hyperbaric and Undersea Medicine, Tokyo, Japan, November, 2012; 71-74.
2. **Ranapurwala, SI**. (Dissertation) Prevention of scuba diving mishaps using a pre-dive checklist: A cluster randomized trial. Epidemiology Department, Gillings School of Global Public Health, University of North Carolina, Chapel Hill, NC, USA. Chair: Steve Wing, PhD. Committee: Charles Poole, PhD; Stephen W. Marshall, PhD; Kristen Kucera, PhD; Petar Denoble, MD.

**CONFERENCES PRESENTATIONS** (# = Presenter)

**Oral presentations**

1. #**Ranapurwala SI**, Alam IZ, Clark M, Carey T, Chelminski PR, Pence BW, Korte J, Wu LT, Wolfson M, Christensen S, Bowlby L, Greenblatt L, Douglas HE, Capata M, Spangler J, Marshall SW. Limitations of opioid use disorder (OUD) ICD codes: Development and validation of a new OUD identification algorithm in electronic medical records. Society for Advancement of Violence and Injury Research, April 2021; Virtual.
2. #**Ranapurwala SI**, Brinkley-Rubinstein L, Sivaraman J, Rosen D, Junker G, Proescholdbell SK, Gaynes B, Carey TS, Pence BW. Association of mental health treatment during incarceration with post-release mortality. Academic Consortium on Criminal Justice Health, April 2021. Virtual.
3. #**Ranapurwala SI**, Jagroep S, #Proescholdbell SK. Justice-involved Population Data and Intervention Projects: Lessons from the North Carolina Justice and Health Workgroup. Rx Summit, April, 2020. Nashville, TN, USA.
4. #**Ranapurwala SI**, Caves JJ, Junker G, Rosen D, Proescholdbell SK, Shanahan ME, Brinkley-Rubinstein L. Restrictive housing during incarceration and the risk of death from suicide, homicide, and opioid overdose post-release in North Carolina: 2000-2015. Society for Advancement of Violence and Injury Research, April 2019; Cincinnati, OH, USA.
5. Geary S, Graham L, Moracco KE, #**Ranapurwala SI**, Proescholdbell SK, Macy R. Intimate partner homicides in North Carolina: 2011-2015. Society for Advancement of Violence and Injury Research, April 2019; Cincinnati, OH, USA.

6. #Sivaraman J, Ali YM, Marshall SW, **Ranapurwala SI**. Law enforcement-related deaths, the number of statewide restrictive firearm laws, and race in 16 US states: 2010-2016. Society for Advancement of Violence and Injury Research, April 2019; Cincinnati, OH, USA.
7. #Naumann RB, Durrance CP, **Ranapurwala SI**, Austin AP, Proescholdbell SK, Shanahan ME. Impact of a community-based naloxone distribution program on opioid overdose death rates, 2013-2016. Society for Advancement of Violence and Injury Research, April 2019; Cincinnati, OH, USA.
8. #Brinkley-Rubinstein L, Caves JJ, Rosen D, Proescholdbell SK, Shanahan ME, **Ranapurwala SI**. Solitary confinement and the risk of post-release death. 12<sup>th</sup> Academy and Health Policy Conference on Correctional Health, March 2019; Las Vegas, NV, USA.
9. #Macmadu A, Brinkley-Rubenstein L, Marshall B, Heise A, **Ranapurwala SI**, Rich JD, Green TC. Risk of fentanyl-involved overdose among those with past year incarceration: Findings from a recent outbreak of illicit synthetic fentanyl overdose in 2014 and 2016. 11<sup>th</sup> Academy and Health Policy Conference on Correctional Health, March 2018; Houston, TX, USA.
10. #**Ranapurwala SI**. Confounding and Directed Acyclic Graphs: Innovations in research and training at NCIPC funded Injury Prevention Research Centers. American Public Health Association annual conference, November 2017; Atlanta, GA, USA.
11. #**Ranapurwala SI**, Shanahan ME, Alexandridis AA, Proescholdbell ST, Naumann RB, Edwards D, Marshall SW. Opioid overdose mortality among former North Carolina inmates: 2000-2015. American Public Health Association annual conference, November 2017; Atlanta, GA, USA.
12. #**Ranapurwala SI**, Hinmann J, Carnahan R, Brown G, Casteel C. Association of Iowa PMP with opioid pain reliever prescribing patterns: An interrupted time series approach. American Public Health Association annual conference, November 2017; Atlanta, GA, USA.
13. #Rauscher KJ, Brown B, Casteel C, **Ranapurwala SI**. Comparing Workplace Violence Experiences of Adolescent and Adult Workers Using the National Crime Victimization Survey. American Public Health Association annual conference, November 2017; Atlanta, GA, USA.
14. #**Ranapurwala SI**, Hinmann J, Carnahan R, Brown G, Casteel C. Impact of prescription monitoring program on opioid pain reliever prescribing patterns in Iowa. Society for Advancement of Violence and Injury Research, September 2017; Ann Arbor, MI, USA.
15. #**Ranapurwala SI**, Young T, Wu H, Cavanaugh JE, Peek-Asa C, Ramirez MR. Public health application of predictive modeling: Forecasting the risk of farm crash injuries. Society for Epidemiologic Research Annual Conference, June 2017; Seattle, WA, USA.
16. #**Ranapurwala SI**, Young T, Ramirez MR. Predictors of injury in a farm vehicle crash: modifiable and non-modifiable factors. Midwest Rural Agricultural Safety and Health Conference, November 2015; Decorah, IA, USA.
17. #**Ranapurwala SI**, Casteel C. Effect of doing volunteer work in formative years on adult delinquency: A longitudinal study. Society for Advancement of Violence and Injury Research, March 2015; New Orleans, LA, USA.
18. #**Ranapurwala SI**, Mello E, Ramirez MR. Effect of road characteristics on the incidence of farm vehicle-related crashes; 40<sup>th</sup> Annual International Traffic Records Forum, October 2014; St. Louis, MO, USA.
19. #Bourque J, **Ranapurwala SI**, Denoble PJ. Divers with implantable cardiac devices; oral presentation; The 47<sup>th</sup> Undersea & Hyperbaric Medical Society (UHMS) Annual Scientific Meeting, June, 2014; St. Louis, MO, USA.
20. **Ranapurwala SI**, #Bird N, Vaithyanathan P, Denoble PJ. Diving injury rates: Results from an online survey; oral presentation; The 46<sup>th</sup> Undersea & Hyperbaric Medical Society (UHMS) Annual Scientific Meeting, June 12, 2013; Orlando, FL, USA.
21. **Ranapurwala SI**, Wing SB, Moore J, #Denoble PJ. A pre-dive safety checklist may prevent diving mishaps: Results from a grouped randomized trial; oral presentation; The 46<sup>th</sup> Undersea & Hyperbaric Medical Society (UHMS) Annual Scientific Meeting, June 12, 2013; Orlando, FL, USA.
22. #**Ranapurwala SI**, Denoble PJ, Vann RD, Vaithyanathan P. Decompression Sickness Claims Rate among Insured Divers Alert Network Members; poster presentation; 1<sup>st</sup> Annual SER Web meeting; November 5, 2011; Web meeting.
23. #Horney JA, Davis SED, Fleischauer A, Davis M, **Ranapurwala S**. Use of the Community Assessment for Public Health Emergency Response (CASPER) in North Carolina, 2003 to 2010; oral presentation; Council of State and Territorial Epidemiologists Annual Meeting; June 12-16, 2011; Pittsburgh, PA.

24. Taylor RR, **#Ranapurwala SI**, Hill M. Protection of Public Health and Capacity Development for Rural Water System in Gales Point, Belize - An Environmental Health Service Learning Project; oral presentation; 137th Annual APHA Meeting; November 7-11, 2009; Philadelphia, PA.
25. **#Ranapurwala SI**, Hill M, Taylor RR. Environmental Health Service Learning and Water Quality in Gales Point, Belize; oral presentation; 2009 Annual KPHA Conference, March 2009, Louisville, KY.
26. **#Ranapurwala SI**, Hill M, Taylor RR. Environmental Health Service Learning and Water Quality in Gales Point, Belize; oral presentation; Annual 39<sup>th</sup> Student Research Conference, Western Kentucky University, February 2009, Bowling Green, KY.

### Poster presentations

1. **#Ranapurwala SI**, Alam IZ. Medicare Part-D opioid prescribing and opioid overdose deaths in the United States: 2013-2017. American Public Health Association annual conference, November 2020; Virtual poster.
2. Blackburn N, Joniak-Grant E, Nocera M, Walker J, **Ranapurwala SI**. Conducting a Process Evaluation of a Statewide Opioid Prescribing Policy: Applying the Consolidated Framework for Implementation Research across all Phases of Data Collection and Analysis. Presented at the 5th Biennial Conference of the Society for Implementation Research Collaboration, September 2019.
3. Graham LM, **Ranapurwala SI**, Zimmer C, Macy RJ, Lanier P, Rizo CF, Martin SL. Disparities in potential years of life lost to intimate partner violence: A study of 16 states from 2006-2015. American Public Health Association annual conference, November 2019.
4. **#Hicks C**, Ranapurwala SI, Peek-Asa C, Casteel C. Prevalence of workplace violence and victimization outcomes, by victim-offender relationship. Society for Advancement of Violence and Injury Research, April 2019; Cincinnati, OH, USA.
5. **#Chawla D**, Kinlaw A, Dover SSM, **Ranapurwala SI**. Association of marijuana use with prescription drug misuse. Society for Epidemiologic Research annual conference, June 2018; Baltimore, MD, USA.
6. **#Caves J**, **Ranapurwala SI**, Moracco KE, Marshall SW. Impact of the number of state firearm safety laws on intimate partner homicide. American Public Health Association annual conference, November 2017; Atlanta, GA, USA.
7. Rosenberg M, Townes A, **#Ranapurwala SI**, Bengtson A. Following the trail of investments in public health research to trace racial health disparities. Society for Advancement of Violence and Injury Research, September 2017; Ann Arbor, MI, USA.
8. **#Ranapurwala SI**, Young T, Ramirez MR. Predictors of injury in a farm vehicle crash: modifiable and non-modifiable factors. University of Iowa, College of Public Health 2015 Research Week – April 2015, Iowa City, IA [Awarded best research poster in two categories].
9. **#Ranapurwala SI**, Berg MT, Casteel C. Does police reporting of victimization help? Relationship with the incidence of future victimization. Society for Epidemiologic Research annual meeting, June 2015; Denver, CO, USA.
10. **#Ranapurwala SI**, Mello E, Ramirez MR. Road segment characteristics and the incidence of farm vehicle-related crashes: A GIS based multistate matched case-control study; Society for Epidemiologic Research annual meeting, June 2015; Denver, CO, USA.
11. **#Ranapurwala SI**, Casteel C, Berg MT. To report or not to report? Effect on crime victimization. The University of Iowa, College of Public Health 2015 Research Week – April 2015, Iowa City, IA [Awarded best research poster in the college in faculty/staff/postdoc category].
12. **#Ranapurwala SI**, Casteel C, Berg MT. To report or not to report? Effect on crime victimization. Society for Advancement of Violence and Injury Research, March 2015; New Orleans, LA, USA.
13. **#Ranapurwala SI**, Mello E, Ramirez MR. Effect of road characteristics on the incidence of farm vehicle-related crashes; 142<sup>nd</sup> Annual American Public Health Association Conference, November 2014; New Orleans, LA, USA.
14. **Ranapurwala SI**, **#Denoble PJ**. Factors affecting adherence to pre-dive checklists: A nested study; poster presentation; The 47<sup>th</sup> Undersea & Hyperbaric Medical Society (UHMS) Annual Scientific Meeting, June, 2014; St. Louis, MO, USA.
15. **#Ranapurwala SI**, Denoble PJ, Marshall SW, Poole C, Kucera KL, Wing SB. Cultivating safe behaviors in recreational scuba divers: A cluster randomized trial of pre-dive checklists; poster presentation; The 65<sup>th</sup> Annual Society of Public Health Education conference, March 19, 2014. Baltimore, MD, USA.
16. **#Ranapurwala SI**, Wing SB, Denoble PJ. A pre-dive safety checklist may prevent diving mishaps: Results from a grouped randomized trial; poster presentation; The 46<sup>th</sup> Annual Society of Epidemiologic Research meeting, June 18, 2013. Boston, MA.

17. #Denoble PJ, Nelson CL, **Ranapurwala SI**, Caruso JL. Prevalence of Left Ventricular Hypertrophy in Scuba Diving and Traffic Accident Victims; poster presentation; The 46<sup>th</sup> Undersea & Hyperbaric Medical Society (UHMS) Annual Scientific Meeting, June 12, 2013.
18. Covington D, **Ranapurwala SI**, Ebersole DG, #Denoble PJ. Modification of Individual Diving Practices after PFO Diagnosis or PFO Closure; poster presentation; The 46<sup>th</sup> Undersea & Hyperbaric Medical Society (UHMS) Annual Scientific Meeting, June 12, 2013.
19. #Denoble PJ, **Ranapurwala SI**, Vaithyanathan P, Clarke RE, Vann RD. Per Capita Claims Rates For Decompression Sickness (DCS) Among Insured Divers Alert Network (DAN) Members; poster presentation; The 45<sup>th</sup> Undersea & Hyperbaric Medical Society (UHMS) Annual Scientific Meeting, June 22, 2012.
20. #Denoble PJ, **Ranapurwala SI**, Vaithyanathan P., Bird N. Online Survey Of Health Status Of DAN Members; poster presentation; The 45<sup>th</sup> Undersea & Hyperbaric Medical Society (UHMS) Annual Scientific Meeting, June 22, 2012.
21. Meija E, \*Nochetto M, Bird N, **Ranapurwala S**, Denoble PJ. A Case Series of Decompression Illness in Miskito Fishermen Divers Treated in 2010 at Clinica La Bendicion; poster presentation; 44th Annual Scientific Meeting – Undersea & Hyperbaric Medicine; June 15-18, 2011; Fort Worth, TX.
22. #DiBiase L, Davis S, Rosselli R, Smith-Craig H, **Ranapurwala S**, Horney J, Casani J. Evaluating local health departments' H1N1 vaccination campaigns: Lessons learned (with handout); poster presentation; Public Health Preparedness Summit 2011; February 22-25, 2011; Atlanta, GA.
23. Lartey GK, Habib F, #**Ranapurwala SI**, Bowles T. Health Departments' Activities in Promoting Motor Vehicle Safety Among Children; poster presentation; 2008 Annual KPHA Conference, April 2008, Louisville, KY.

#### INVITED TALKS

1. APHA Pre-Conference Workshop Panel for Researchers of Color in Injury and Violence Prevention. Virtual Panelist. APHA/CDC-NCIPC pre-conference workshop. October 23, 2021.
2. Balancing confounding control with dimension reduction: Role of bias-variance trade-off. Virtual Talk. University of Minnesota, MN. October 22, 2021.
3. Strategies for Primary Prevention of Opioid Disorders and Overdose: Big Data Research Perspective. Virtual Talk. Addiction Research & Clinical Health (ARCH) Symposium. Wake Forest School of Medicine. August 26, 2020.
4. Applying epidemiologic tools to pain, substance use, and violence research. Virtual talk. Department of Physical Medicine & Rehabilitation, UNC School of Medicine. June 5, 2020.
5. Advancing opioids and violence research with modern epidemiologic methods and big data. Virtual talk. Department of Epidemiology, Rollins School of Public Health, Emory University. April 9, 2020.
6. Addressing confounding in studies examining the safety of abuse deterrent opioid formulations. US Food and Drug Administration, Washington, DC. December 11, 2019.
7. Evaluation of state mandated acute and post-surgical prescribing limits. Centers for Disease Control and Prevention (CDC), Atlanta, GA. September 25, 2019.
8. Confronting the opioid epidemic: From opioid prescribing policies and practices to precision medicine and tailored interventions. FORE foundation, Chapel Hill. August 15, 2019.
9. Opioid Overdose, Suicide and Homicide Deaths among Formerly Incarcerated People in North Carolina: 2000-2015. NC Opioid Prevention Summit 2019, Raleigh. June 9, 2019.
10. Grant writing workshop: Injury and Violence Prevention Fellows Continuing Education Series. UNC Injury Prevention Research Center (IPRC), Chapel Hill, NC. February 28, 2019.
11. Epidemiologic methods for opioid safety research. University of Pennsylvania, Center for Clinical Epidemiology and Biostatistics seminar series with the Penn Injury Science Center, Philadelphia. January 24, 2019.
12. Methodologic Limitations of Prescription Opioid Safety Research: A Call for Integrated Data Systems and Modern Epidemiology. The North Carolina Translational and Clinical Sciences Institute. June 4, 2018.
13. Disproportionate effects of opioids and violence on disadvantaged populations. Gillings School of Global

Public Health: The Lunch with the Dean Series. April 26, 2018.

14. Association of Iowa PMP with opioid pain reliever prescribing patterns: An interrupted time series approach. University of Minnesota School of Public Health, Junior Faculty Lunch. April 5, 2018.
15. Policies to prevent opioid poisoning. Cecil G. Sheps Center for Health Services and Research, Chapel Hill, NC, April 2, 2018.
16. Opioid overdose deaths after release from prison. North Carolina Department of Corrections, Raleigh, North Carolina, May 26, 2017.
17. Advancing injury prevention with modern epidemiologic methods: Examples from opioid poisoning, youth violence, and occupational transportation safety. Department of Epidemiology, University of Colorado, Denver. June 23, 2016.
18. Using epidemiologic methods to advance injury prevention in opioid poisoning, youth violence, and occupational transportation safety. Department of Epidemiology, University of North Carolina, Chapel Hill. May 3, 2016.
19. Volunteering and youth violence prevention: My ongoing work and future directions. University of Iowa Injury Prevention Research Center Executive committee meeting. November 5, 2015.
20. Effect of Road Characteristics on the Incidence of Farm Vehicle Crashes: A Matched Case-Control Study. Great Plains Center for Agricultural Health advisory council meeting. January 14, 2015.
21. Road characteristics and incidence of farm vehicle crashes. State Traffic Records coordinating committee, Iowa City, Iowa. September 18, 2014.
22. Prevention of Scuba Diving Mishaps using a Pre-dive Checklist: A Cluster Randomized Trial. Injury Prevention Research Center. Iowa City, Iowa. July 17, 2014.
23. Cultivating Safe Behaviors in Recreation Diving. Divers Alert Network Public Lecture Series, Durham, NC. Dec 4, 2013.
24. Checklists Work: Preventing Diving Mishaps, Injuries, and Fatalities. Down Under Scuba Monthly Meeting, Raleigh, NC. Oct 8, 2013.
25. Pre-dive Safety Checklist Prevents Diving Mishaps: Results from a Group Randomized Trial. Undersea and Hyperbaric Medicine Society Pacific chapter annual meeting, Las Vegas, NV. Sept 7, 2013.
26. Diving Injury Rates: Results from an Online Survey. Undersea and Hyperbaric Medicine Society Pacific chapter annual meeting, Las Vegas, NV. Sept 7, 2013.
27. Epidemiological Studies in Scuba Diving at Divers Alert Network. Center for Hyperbaric Medicine and Environmental Physiology, Duke University Medical Center, Durham, NC. Jan 13, 2012.
28. Principles and Practice of Homoeopathy. Four contributory lectures for Final year and Intern Homoeopathic Medical Students, Nagpur College of Homoeopathy & Hospital, India. Nov, 2006.

#### **Unrefereed reports/ guideline documents/ articles**

1. **Ranapurwala SI.** Opioid Overdose Deaths among the Formerly Incarcerated. Public Health Post, Oct. 2018. Available at: <https://www.publichealthpost.org/research/opioid-overdose-deaths-among-formerly-incarcerated-persons/>
2. **Ranapurwala SI.** Checklists: Keys to safer diving? Alert Diver. Available at: <http://www.alertdiver.com/Checklists>
3. **Ranapurwala SI.** Scuba Diving Research: A Sneak Peek Into the Process. Alert Diver. Available at: [http://www.alertdiver.com/Scuba\\_Diving\\_Research\\_A\\_Sneak\\_Peak\\_Into\\_the\\_Process](http://www.alertdiver.com/Scuba_Diving_Research_A_Sneak_Peak_Into_the_Process)

#### **TEACHING EXPERIENCE**

##### **At the University of North Carolina, Chapel Hill**

**Co-instructor**, Intervention Epidemiology (*EPID 790*, required for Master of Sciences in Clinical Research students). Department of Epidemiology, University of North Carolina at Chapel Hill, NC.

**Fall 2021** (22 students). **Fall 2020** (16 students).



The class covers topics on intervention epidemiology and randomized trials and causal inference in this area. My topics: 1) Causal inference in randomized and observational studies; 2) Cluster randomized trial study designs; 3) methods for addressing adherence and contamination in randomized trials including intent-to-treat, per-protocol, as-treated, marginal structural models, and complier average causal effect; 4) quasi-experimental designs specifically interrupted-time-series analysis; and 5) generalizability in intervention studies.

**Co-instructor**, Intervention Epidemiology (EPID 790). Department of Epidemiology, University of North Carolina at Chapel Hill, NC. **Fall 2017**; **Spring 2019** (6 PhD students); **Fall 2020** (14 MD & PhD students). The class covered topics on intervention epidemiology and randomized trials and causal inference in this area. My topics: 1) Causal inference in randomized and observational studies; 2) methods for addressing adherence and contamination in randomized trials including intent-to-treat, per-protocol, as-treated, marginal structural models, and complier average causal effect; 3) variations in cluster randomized trials; 4) quasi-experimental studies; and 5) generalizability in intervention studies.

### **Guest lectures**

Injury Prevention (EPID 627). Department of Epidemiology, University of North Carolina at Chapel Hill, NC. Fall 2017: Topic – Opioid Epidemic.

Injury Prevention (EPID 627). Department of Epidemiology, University of North Carolina at Chapel Hill, NC. Fall 2018: Topic – Opioid Epidemic.

Injury Prevention (EPID 627). Department of Epidemiology, University of North Carolina at Chapel Hill, NC. Fall 2019: Title: Confronting the opioid epidemic: From opioid prescribing policies and practices to precision medicine and tailored interventions.

Use, Misuse and Addiction to Drugs in the 21st Century (SOCM89). University of North Carolina at Chapel Hill, NC. Fall 2019: Title: Confronting the opioid epidemic: From opioid prescribing policies and practices to precision medicine and tailored interventions.

Use, Misuse and Addiction to Drugs in the 21st Century (SOCM89). University of North Carolina at Chapel Hill, NC. Fall 2020: Title: Strategies for Primary Prevention of Opioid Disorders and Overdose: Big Data Research Perspective.

Injury Prevention (EPID 627). Department of Epidemiology, University of North Carolina at Chapel Hill, NC. Fall 2020: Title: Strategies for Primary Prevention of Opioid Disorders and Overdose: Big Data Research Perspective.

Interventions (HBEH 811). Department of Health Behavior, University of North Carolina at Chapel Hill, NC. Fall 2020: Title: Quasi Experimental Studies: eProtect: DVPO e-filling evaluation in 10\* NC counties.

From Data to Action: Analyses to Link Public Health Research and Policy Decision-Making (HBEH 788). Department of Health Behavior, University of North Carolina at Chapel Hill, NC. Spring 2021: Title: Concepts in Quasi-Experimentation.

### **Conference Workshops**

**Co-instructor**, Workshop on Causal Inference and Directed Acyclic Graphs. Society for Advancement of Violence and Injury Research (SAVIR) – September 2017, Ann Arbor, MI, USA. Six attendees.

### **At the University of Iowa**

**Co-instructor**, Epidemiology III (EPID 7400): Theoretical perspectives. Department of Epidemiology, University of Iowa, Iowa City, IA. Fall 2015. Nine PhD students.

Co-instructor with Audrey Saftlas, PhD. The class covered topics on causal inference in epidemiology. I covered topics on causal inference in randomized and observational studies, directed acyclic graphs, confounding, and mediation.

### **Guest lectures**

Introduction to Oral Epidemiology (DPH 6004). College of Dentistry, University of Iowa, Iowa City, IA. Spring 2016: Topic – Confounding and Directed Acyclic Graphs with journal club discussion.

Injury Epidemiology (OEH 6520). Department of Occupational and Environmental Health, University of Iowa, Iowa City, IA. Spring 2015-2016: Topic – Effect Measure Modification.

Injury Epidemiology (OEH 6520). Department of Occupational and Environmental Health, University of Iowa, Iowa City, IA. Spring 2015-2016: Topic – Confounding and Directed Acyclic Graphs.

Injury and violence prevention (OEH 4510). Department of Occupational and Environmental Health, University of Iowa, Iowa City, IA. Fall 2014: Topic – Introduction to Injury Epidemiology.

Epidemiology seminar. Department of Epidemiology, University of Iowa, Iowa City, IA. Fall 2014: Topic – Directed Acyclic Graphs (DAG) – why and how?

### ***At Western Kentucky University***

**Instructor**, Personal Health (HED 100C). Department of Liberal Arts and Science (Health Education), Western Kentucky University Community College at South Campus, Bowling Green, KY. Fall 2009, Spring 2010. 60 students per semester.

## **GRANT SUPPORT**

### **Ongoing**

1. Office of Violence against Women, NIJ

#### **The Effects of Electronic Filing of DVPOs in a Pandemic**

11/01/2021-10/31/2023

MPIs: Morocco & Ranapurwala

Total Award: \$450,000

To conduct a mixed method study to examine how COVID-19 has impacted DVPO filing and processing in North Carolina and how impactful DVPO e-filing in nine NC counties that implemented e-filing 12 months prior to COVID-19, compared to counties without DVPO e-filing.

2. National Institute of Mental Health

#### **NIH Diversity Supplement to R01 MH124752 - Innovations in Suicide Prevention Research (INSPIRE)**

08/15/2021 – 06/30/2024

MPIs: Pence & Ranapurwala

Role: Co-mentor

The goal of this NIH Diversity supplement is to support Ms. Monica Swilley-Martinez, an incoming doctoral student in the Department of Epidemiology, in her doctoral training and research.

3. W81XWH-19-CTRR-CTA

Congressionally Directed Medical Research Programs/Clinical and Rehabilitative Medicine Research Program (CDMRP/JPC-8/CRM RP)

#### **A Pragmatic Rehabilitation Intervention to Supplement Progressive Return to Activity following Mild Traumatic Brain Injury in Service Members (SMs): The Active Rehab Study**

1/1/2021-12/31/2023

PI: Register-Mihalik

Role: Co-Investigator

Total award (direct and indirect): \$3,127,823

The goals of the project are to: 1) evaluate the effects of a pragmatic Active Rehab protocol delivered acutely/sub-acutely in supplement to the PRA following mTBI on military performance, physiologic function, clinical recovery, and psychological health and 2) develop an adaptive clinical algorithm for widespread post mTBI use of the Active Rehab protocol in military settings.

4. National Institute of Mental Health

#### **R01 MH124752 - Innovations in Suicide Prevention Research (INSPIRE)**

09/09/2020 – 06/30/2024

MPIs: Pence & Ranapurwala

Total award (direct and indirect): \$2,971,995

To develop a suicide surveillance system in North Carolina by linking four large population-based data sources to mortality and violent death reporting system data and develop predictive models to identify short- and long-term predictors of suicidal behaviors and suicide mortality.

5. National Center for Injury Prevention and Control, Centers for Disease Control and Prevention  
**(Supplement) R01CE003009-03M002 – Evaluation of state-mandated acute & post-surgical pain-specific CDC opioid prescribing guidelines (R01)**

09/30/2020 – 09/29/2022

PI: Ranapurwala

Total award (direct and indirect): \$90,190 (Prime: \$2,039,524)

To conduct doubly encrypted linkage between electronic health records and prescription monitoring program data in North Carolina.

6. Office of Violence against Women, NIJ

**Evaluation of Electronic Filing for Domestic Violence Protective Orders in North Carolina**

11/01/2019-10/31/2021

PI: Moracco

Role: Co-investigator

To conduct a mixed method study to examine the effects of DVPO e-filing in eight NC counties that have implemented e-filing prior to 2019.

7. National Institute of Drug Abuse, National Institute of Health

**U01DA050442 - Decrease Overdose among People on Community Supervision in a Justice Community Opioid Innovation Network (JCOIN) Clinical Research Center (CRC) (R01)**

09/01/2019-08/31/2024

Co-PIs: Martin (Brown); Brinkley-Rubinstein (UNC)

Role: Co-investigator

To establish a JCOIN CRC at Brown University in collaboration with the University of North Carolina-Chapel Hill, University of Rhode Island, and Temple University, to improve capacity of the justice system to effectively respond to the opioid crisis, thereby improving public health and safety outcomes. We will conduct a type 1 hybrid implementation-effectiveness randomized trial to evaluate the effectiveness of a peer support model on compliance with opioid use disorder treatment, recidivism, illicit opioid use, and overdose.

8. National Center for Injury Prevention and Control, Centers for Disease Control and Prevention

**R49 CE003092 - University of North Carolina Injury Prevention Research Center**

**Project 2: Medicaid expansion and deaths due to opioid overdose, suicides and homicides among formerly incarcerated persons**

08/01/2019 – 07/31/2024

PI: Marshall

Role: Project co-lead

To evaluate the impact of Medicaid expansion on deaths due to opioid overdose, suicides and homicides among formerly incarcerated persons.

9. US Food and Drug Administration

**HHSF223201810183C - Methodological Advances in Evaluating Abuse Deterrent Opioid Analgesics**

09/28/2018 – 09/27/2022

PI: Dasgupta

Role: Project lead for one sub-project (09/28/2019 – 09/27/2022)

To evaluate and compare methods for the confounding by indication, the expected likelihood that patients receiving ADF opioids have different risk profiles for experiencing overdose/abuse outcomes than patients prescribed traditional opioids.

10. National Center for Injury Prevention and Control, Centers for Disease Control and Prevention

**R01 CE003009 - Evaluation of state-mandated acute & post-surgical pain-specific CDC opioid prescribing guidelines (R01)**

09/30/2018 – 09/29/2021 (NCE: - 09/29/2022)

PI: Ranapurwala

Total award (direct and indirect): \$2,039,524

To examine the impact of a state mandated CDC opioid guideline for acute and post-surgical pain on physicians' opioid prescribing behaviors and opioid safety outcomes (including fatal and non-fatal overdose) among patients. This is a multi-institutional grant collaboration between UNC-CH, Duke, and Vanderbilt.

11. National Institute for Occupational Safety and Health, CDC

**R01 OH011256 - Trends and Disparities in Fatal Occupational Injury in North Carolina (R01)**

09/01/2018 – 08/30/2022

PI: Richardson

Role: Co-investigator

To strengthen the understanding of fatal occupational injuries in NC by identifying trends in fatal injury rates and assessing disparities by industry/ occupation, race, and worker age.

**Completed**

North Carolina Translational and Clinical Sciences Institute (NC TraCS): Carolinas Collaborative Pilot Grant  
**CCR31812- Measuring Opioid Use Disorders in Secondary Electronic Health Records Data (pilot)**

03/01/2019 – 07/31/2020 (NCE)

Co-PIs: Ranapurwala, Wu, Wolfson, Korte

Role: Lead PI (no salary support – Pilot grant)

Total award: \$100,000 (Direct only)

To develop a valid algorithm to accurately measure OUD in secondary datasets especially EHR, and determine the sensitivity of opioid abuse and dependence specific ICD9/10 codes using the algorithm. This grant is a multi-institutional collaboration between UNC-CH, Duke, Wake Forest and Medical University of South Carolina, and will lead to an R01 grant.

National Football League

**Role of Active Rehabilitation in Concussion Management: A Randomized Controlled Trial**

05/01/2016 – 04/30/2021

PI: Register-Mihalik J

Total award (direct and indirect): \$2,599,957

Role: Co-investigator, (did not participate in proposal development) (35%)

To evaluate the effect of a concussion rehabilitation program in a cluster randomized trial

National Institute for Drug Abuse, National Institutes of Health

**R21 DA046048 - Chronic Pain Management, Opioid Misuse, and Risk of Blood-borne Infections (R21)**

04/01/2018 – 03/31/2020

PI: Pence

Role: Co-investigator (10%)

The overall objective of this application is to leverage a unique combination of “big data” and qualitative data to generate high-quality evidence about optimal strategies to taper or end long-term opioids.

North Carolina Department of Health and Human Services

National Center for Injury Prevention and Control, Centers for Disease Control and Prevention

**5NU17CE002728 - Prescription Drug Overdose: Prevention for States**

03/01/16 – 09/30/2020

Subcontract PI: Naumann, RB (PI: Proescholdbell)

Award (per year direct): \$150,000

Role: Co-investigator (8-25%)

To evaluate the impact of prescription monitoring program and other policies in North Carolina on prescription drug overdose

National Center for Injury Prevention and Control, Centers for Disease Control and Prevention

**R49 CE002479 - University of North Carolina Injury Prevention Research Center**

08/01/2014 – 07/31/2020

PI: Marshall

*Project 4: Evaluation of North Carolina Medical Board's Safe Opioid Prescribing Initiative*

Role: Project lead (08/01/2017 – 07/31/2020)

Total award (direct and indirect): \$300,000

To evaluate the impact of North Carolina Medical Board's opioid prescribing policies on inappropriate tapering and abrupt stoppage of opioid prescriptions and overdose deaths in North Carolina.

National Center for Injury Prevention and Control, Centers for Disease Control and Prevention

**R49 CE001167 - University of Iowa Injury Prevention Research Center**

**Poisoning: Improved Surveillance for Determining Control Measures**

08/01/2015 – 07/31/2017

PI: Peek-Asa

Total award (direct and indirect): \$300,000

Role: Co-investigator (25%- Aug'15 to Sept'16); Subcontract PI (10% - Oct'16 to Jul'17)

To evaluate the impact of Iowa Prescription Monitoring Program on opioid prescribing behaviors among physicians in Iowa

National Center for Injury Prevention and Control, Centers for Disease Control and Prevention

**University of Iowa Injury Prevention Research Center**

August 2012 – July 2017

PI: Peek-Asa, C

Total award (direct and indirect): \$4,525,000

Role: Postdoctoral Research Scholar (Jun'14 to Aug '16: did not participate in proposal development)

National Institute of Occupational Safety and Health - U50 OH007548-11

**U50 OH007548 - Great Plains Center for Agricultural Health**

**Subproject: Farm Equipment Crash Study (Project lead: Marizen Ramirez)**

09/30/2011 – 09/29/2016

PI: Gerr, F

Total award (direct and indirect): \$1,644,111 (2014)

Role: Epidemiologist (Jun'14 to Sept'16: did not participate in proposal development)

To develop a comprehensive epidemiologic profile of farm crashes, analysis of risk factors, and evaluate the impact of lighting and marking policies of farm equipment on the incidence of crashes.

University of Iowa

**Office of Vice President for Research & Economic Development/ College of Public Health**

August 2013 – July 2016

PI: Casteel, C

Total award (direct only- internal funds): \$105,354

Role: Postdoctoral Research Scholar (Jun'14 to July'16: did not participate in proposal development)

The University of Iowa Injury Prevention Research Center

**Assessment of community service programs/ curricula in middle/junior and high schools**

July 1, 2015 – June 30, 2016

PI: Ranapurwala, SI

Total Award (direct): \$21,506 (pilot funding)

Role: Principal Investigator

Center for Injury Epidemiology and Prevention, Columbia University

**Evaluation of Anti-Bullying Laws across the Country**

01/01/2014 – 12/31/2014

Multiple PIs: Ramirez, MR and Hatzenbuehler, M

Total Award: \$7,500

Role: Co-Investigator (Jun'14 to Dec'14: did not participate in proposal development)

Divers Alert Network

**Scuba diving intervention study: A cluster randomized controlled trial**

01/05/2011 – 04/30/2012

PI: Ranapurwala, SI

Total Award (Direct): \$32,000

Role: Principal Investigator

To investigate the effect of using a pre-dive checklist on the incidence of diving mishaps in recreational scuba divers

Divers Alert Network

**The University of North Carolina at Chapel Hill Graduate Research Training in cooperation with Divers Alert Network**

09/01/2010 – 05/25/2014

Total Award: Year 1: \$25,000; Year 2: \$31,231; Year 3: \$31,231; Year 4 (9 months): \$27,731.

Role: Epidemiologist and Biostatistician (50%, plus Tuition and Health Insurance at UNC)

Worked on multiple research projects at Divers Alert Network

1. Medical evaluation for fitness to dive: A needs assessment (PI: Bird)
2. Evaluation of decompression sickness claims (PI: Denoble)
3. Prevalence of Left Ventricular Hypertrophy in Scuba Diving and Traffic Fatalities (PI: Denoble)
4. DAN insured members' health survey (PI: Denoble)
5. Diving experience of divers with implanted cardiac devices (Co-PIs: Denoble/ Bourque)

**MENTORING**

*University of North Carolina, Chapel Hill*

*Current Postdocs*

1. Bethany DiPrete, PhD (primary mentor: Ranapurwala)
2. Vanessa Miller, PhD (Co-mentors: Pence & Ranapurwala)

### **Current Students**

1. Katie Wolfe – Doctoral student in Epidemiology, UNC-CH; member of dissertation committee (expected graduation in 2021).
2. Erica Redding – Doctoral student in Health Behavior, UNC-CH; member of dissertation committee (expected graduation in 2022).
3. Kate Fitch - Doctoral student in Epidemiology, UNC-CH; co-mentor (expected graduation in 2025).
4. Monica Swilley-Martinez - Doctoral student in Epidemiology, UNC-CH; co-mentor (expected graduation in 2025).

### **Past students**

1. Josie Caves – MSPH in Epidemiology, UNC-CH; chaired master's committee; graduated in 2017; PhD in Epidemiology, UNC-CH; member of dissertation committee. Graduated Dec. 2020. Current position – Postdoc at Duke University.
2. Bethany DiPrete - Doctoral student in Epidemiology, UNC-CH; member of dissertation committee; Graduated August 2020. Current position – Postdoc at UNC IPRC.
3. Juliana Prim - Doctoral student in Human Movement Science, School of Medicine, UNC-CH; member of dissertation committee; graduated December 2019; current position – research fellow.
4. Laurie Graham – PhD Social Work, UNC-CH; member of her dissertation committee; graduated May 2019; Current Position – Assistant Professor, Social Work, University of Maryland at Baltimore County
5. Yasmin Ali Mohammed, MD – MPH in Public Health Leadership, UNC-CH – master's practicum preceptor (graduated – May 2018).

### **UNC Injury Prevention Research Center Fellows**

#### **Current Students**

1. Julie Kafka, MPH – Doctoral student in Health Behavior, UNC-CH

#### **Past Students**

1. Laurie Graham – Doctoral student in Social Work, UNC-CH
2. Adams Sibley – MPH student in Health Behavior, UNC-CH

### **CDC-Morehouse College: Project Imhotep Fellows**

#### **Past Students**

1. Julia Blackwell – Undergraduate student, Agnes Scott College, Atlanta, GA

## **PROFESSIONAL SERVICE**

### **University of North Carolina, Chapel Hill**

- |              |  |
|--------------|--|
| 2021         | Member, Center Review Committee, Office of Vice Chancellor for Research  |
| 2018         | Member, Injury epidemiology substantive qualifying examination committee   |
| 2017         | Member, Epidemiology methods qualifying examination committee  |
| 2016-present | Core faculty, UNC Injury Prevention Research Center  |
| 2011         | Data Collection, North Carolina Institute for Public Health. Rapid needs assessment of wildfire damages at Holy Shelter Game Land, Pender, NC.   |
| 2010         | Data Collection, North Carolina Institute for Public Health. Household awareness survey about KI distribution within the 10-mile emergency planning zone around the Shearon Harris nuclear power plant, Raleigh, NC. |

### **Child Trends, Bethesda, MD**

- |              |  |
|--------------|--|
| 2021-present | Advisory Board Member: Maternal, Infant, and Early Childhood Home Visiting Program (MIECHV): Advancing Health Equity in Response to the COVID-19 Public Health Emergency |
|--------------|--|

### **State of North Carolina**

- |              |   |
|--------------|---|
| 2017-present | NC Justice & Health Workgroup (received NC DHHS Secretary's team award in 2021).  |
| 2016-present | Opioid and Prescription Drug Abuse Advisory Council, Research and Evaluation Core |

### **Divers Alert Network (DAN), Durham, NC**

2017-present Member of the DAN Institutional Review Board

### **State of Iowa**

2014 – 2016 Prescription Drug Abuse Reduction Task Force

### **University of Iowa**

2014 – 2016 Great Plains Center for Agricultural Health Internal Advisory Committee

2014 – 2016 Injury Prevention Research Center Strategic Executive Committee

2014 – 2015 University of Iowa Postdoctoral Association, Public Health representative

### **Onslow County, NC, USA**

2012 Data Analysis, Onslow County Community Health Assessment Survey. 30 hrs.

### **Western Kentucky University, Bowling Green, KY**

2008 – 2009 Secretary, Kentucky Public Health Association student chapter

2008 – 2009 President, International Students Club

2007 – 2008 Public Relations Officer, International Club

### **Warren County, KY, USA**

2008 Student Health Educator, Warren Region Juvenile Detention Center. 50 hours.

Future selves program for incarcerated children and youth provided vocational awareness, education, and practical coping strategies.

### **Professional Societies**

2020-present Co-Chair, SAVIR Antiracism Interest Group (AIG)

1. Led the development of “SAVIR Conference presenter guidelines to address health inequity and racism” in collaboration with the SAVIR AIG team. March, 2021. Available at:

[https://www.savirweb.org/aws/SAVIR/asset\\_manager/get\\_file/557396?ver=0](https://www.savirweb.org/aws/SAVIR/asset_manager/get_file/557396?ver=0)

2. Co-Led the development of “Code of Conduct: For Members & Conference Attendees” in collaboration with the SAVIR AIG team. March 2021. Available at:

[https://savirweb.org/aws/SAVIR/asset\\_manager/get\\_file/556207?ver=0](https://savirweb.org/aws/SAVIR/asset_manager/get_file/556207?ver=0)

3. Led the development of the “SAVIR Statement on Antiracism, Diversity, Equity, and Inclusion” in collaboration with the SAVIR AIG team. June 2021. Available at:

<https://www.savirweb.org/aws/SAVIR/pt/sp/statement>

2019-present SAVIR Annual Conference Best Science Award organizer

2015-present Society for Advancement of Violence and Injury Research (SAVIR), Science and Research Committee

2017 – 2021 Society for Advancement of Violence and Injury Research (SAVIR), Training and Infrastructure Committee

2014 – 2015 American Public Health Association Injury Control and Emergency Health Services (ICHES), Policy Committee

### **Grant Review**

2021 UNC Injury Prevention Research Center Exploratory grants program

2018 National Institute on Disability, Independent Living, and Rehabilitation Research

2018 Western University of Health Sciences Intramural grant

### **Peer Reviewed Journals**

#### **Editorial duties:**

2021-present Topic Editor, International Journal of Environmental Research and Public Health

**Ad-Hoc Reviewer:** American Journal of Epidemiology; American Journal of Education; American Journal of Preventive Medicine; American Journal of Public Health; BMC Medicine; BMC Public Health; British Medical Journal; Drug Alcohol Dependence; Epidemiology; European Journal of Sports Medicine; International Journal of Injury Control and Safety Promotion; Injury Epidemiology; Injury Prevention; Journal of American Medical Association (JAMA) open network; Journal of Diabetes Science and Technology; Journal of Family Violence; Journal of Family Medicine and Primary Care; The Journal of Primary Prevention; Journal of Trauma and Care; Osteoarthritis and Cartilage; Pain Medicine; PLoS One; Pharmacoepidemiology and Drug Safety; Preventive Medicine; Public Health Reports; Substance Use and Misuse; Violence and Gender.

**Conference Abstract Review**

2013-present Society of Epidemiologic Research (SER), Annual conference  
2015-present Society for Advancement of Violence and Injury Research (SAVIR), Annual conference  
2015-present American Public Health Association, Annual conference  
2014 – 2017 Society of Public Health Education (SOPHE), Annual conference  
2015 Epidemiology Congress of the Americas 2016 [for Society of Epidemiologic Research]

**Conference session moderator**

2017-present Society for Advancement of Violence and Injury Research  
2017-present American Public Health Association – Injury Control and Emergency Health Services section