

## CURRICULUM VITA

**Anna Estelle Waller**

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### **I. PERSONAL INFORMATION**

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### **II. EDUCATION**

University of Otago Postdoctoral Fellowship. University of Otago, Department of Preventive and Social Medicine, Injury Prevention Research Unit, Dunedin, NEW ZEALAND. January 1992 - January 1993.

Health Research Council (formerly the Medical Research Council) of New Zealand Postdoctoral Fellowship. University of Otago, Department of Paediatrics and Child Health, Dunedin Multidisciplinary Health and Development Research Unit, Dunedin, NEW ZEALAND. January 1990 - January 1992.

Doctorate of Science (ScD). Johns Hopkins University, School of Public Health, Department of Maternal and Child Health, Baltimore, MD, USA. 1989. Dissertation title: "Identification of Risk Factors for Injury in Adolescent Dancers".

Bachelor of Arts. University of North Carolina, Chapel Hill, NC, USA. 1982. Psychology.

### **III. PROFESSIONAL APPOINTMENTS, RESEARCH EXPERIENCE AND EMPLOYMENT HISTORY**

#### **Current Appointments:**

May 2015 – present: Core Fellowship Faculty, UNC Pediatric Emergency Medicine Fellowship, University of North Carolina, Chapel Hill, North Carolina, USA.

June 2014 – present: Fixed Term Graduate Faculty, School of Nursing, University of North Carolina, Chapel Hill, North Carolina, USA.

April 2014 – present: Research Professor, Department of Emergency Medicine, University of North Carolina, Chapel Hill, North Carolina, USA.

February 2012 – present: November 1996 – September 2002: Core Faculty, Injury Prevention Research Center, University of North Carolina, Chapel Hill, North Carolina, USA.

February 2008 – present: Director, Carolina Center for Health Informatics, Department of Emergency Medicine, University of North Carolina, Chapel Hill, North Carolina, USA.

September 2003 – March 2014: Research Associate Professor, Department of Emergency Medicine, University of North Carolina, Chapel Hill, North Carolina, USA.

April 1998 - present: Faculty Fellow, Center for Urban and Regional Studies, University of North Carolina, Chapel Hill, NC, USA.

February 1995 - present: Adjunct Lecturer, Department of Health Behavior and Health Education, School of Public Health, University of North Carolina, Chapel Hill, NC, USA.

September 1994 – September 2003: Research Assistant Professor, Research Director, Department of Emergency Medicine, University of North Carolina, Chapel Hill, North Carolina, USA.

**Past Research Experience and Employment:**

January 1993 - August 1994: Project Coordinator, Rugby Injury and Performance Project, Injury Prevention Research Unit, Department of Preventive and Social Medicine, University of Otago, Dunedin, NEW ZEALAND.

January 1992 - December 1992: University of Otago Postdoctoral Fellow, Injury Prevention Research Unit, Department of Preventive and Social Medicine, University of Otago, Dunedin, NEW ZEALAND.

January 1990 - January 1992: Health Research Council Postdoctoral Fellow, Dunedin Multidisciplinary Health and Development Research Unit, Department of Paediatrics, University of Otago, Dunedin, NEW ZEALAND.

September 1986 – Nov. 1989: Research Assistant, Injury Prevention Center, The Johns Hopkins University, School of Public Health, Baltimore, MD, USA.

June 1986 - September 1986: Research Assistant, Department of Maternal and Child Health, The Johns Hopkins University, School of Public Health, Baltimore, MD, USA.

January 1986 - May 1986: Research Assistant, Division of Injury Control, Department of Health Policy and Management, The Johns Hopkins University, School of Public Health, Baltimore, MD, USA.

November 1983 - June 1985: Research Associate, Texas Transportation Institute, Texas A&M University, Austin, TX, USA.

September 1981 - June 1983: Research Assistant, Highway Safety Research Center, University of North Carolina, Chapel Hill, NC, USA.

May 1980 - September 1981: Educational Program Assistant, Highway Safety Research Center, University of North Carolina, Chapel Hill, NC, USA.

Summers 1978 and 1979: Data Collector and Student Assistant, Highway Safety Research Center, University of North Carolina, Chapel Hill, NC, USA.

**IV. HONORS AND AWARDS**

**Awards:**

First Author on winner of “Best Student Paper” Award, ISDS Conference, 2018: **Waller A**, Harmon KJ, Geary S, Ising A, Hakenewerth A, Tintinalli J, Proescholdbell S. Informing public health prevention in NC using falls surveillance data (oral presentation). International Society for Disease Surveillance (ISDS), Orlando FL, February 2018.

Author on winner of the “Best Student Paper” Award, ISDS Conference, 2013: Harmon KJ, Proescholdbell SK, Marshall SW, **Waller AE**. Utilization of emergency department data for drug overdose surveillance in North Carolina (oral presentation). International Society for Disease Surveillance (ISDS), New Orleans, LA, December 2013.

Author on winner of the "Best Paper in Biometrics by an IBS Member" Award for 2011: Zhao Y, Zeng D, Herring AH, Ising A, **Waller AE**, Richardson D, Kosorok MR. Detecting Disease Outbreaks Using Local Spatiotemporal Methods. *Biometrics* 2011; 67 1508-1517.

Author on winner of “Best Poster” Award, ISDS Conference, 2010: Samoff E, Ising A, **Waller A**, Sickbert-Bennett E, Davis M, Park M, Haas S, DiBiase L, MacDonald P. Access to and use of Syndromic Surveillance Information at the Local Health Department Level (Poster). International Society for Disease Surveillance (ISDS), Miami, FL, December 2010.

HIMSS Public Health Davies Award, 2006. For NC DETECT (not a personal award).

Best Overall Paper Award, UNC Emergency Medicine Research Forum, 1997. Author of winning paper, “Emergency Care for Children: Results of a Statewide Survey of Emergency Departments”. Chapel Hill, NC, April 1997.

Finalist for Zonta Science Award (New Zealand), 1992

### **Fellowships/Scholarships:**

University of Otago Postdoctoral Fellowship, 1992

Health Research Council of New Zealand Postdoctoral Fellowship, 1991

Medical Research Council of New Zealand Postdoctoral Fellowship, 1990

Maternal and Child Health Training Grant Tuition Scholarship, 1985-1989

## **V. BIBLIOGRAPHY**

### **Book Chapters**

1. Travers D, Rupp V, Mecham N, Katznelson J, Hohenhaus S, **Waller A**, Rosenau A. The Use of ESI for Pediatric Triage. In: *Emergency Severity Index (ESI): A Triage Tool for Emergency Department Care, Version 4. Implementation Handbook 2012 Edition*. Gilboy N, Tanabe T, Travers D, Rosenau AM. Rockville, MD: AHRQ Publication No. 12-0014; November 2011; 41-52.
2. Kaydos-Daniels SC, Rojas-Smith L, Ising AI, Barnett C, Farris T, **Waller AE**, Wetterhall S. Biosurveillance and Public Health Practice: A Case Study of North Carolina’s NC DETECT System. In: *Biosurveillance: Methods and Case Studies*, Kass-Hout T and Zhang X, editors. Boca Raton, FL: CRC Press; 2011; 195-213.
3. **Waller AE**, Ising AI, Deyneka L. North Carolina Biosurveillance System. In: *Wiley Handbook of Science and Technology for Homeland Security*. Voeller JG, editor. New York: John Wiley and Sons, Inc.; 2008; 1-40. Published online April 2010, vol. 3.5.

4. **Waller AE**, Scholer MJ, Ising AI and Travers DA. Using Emergency Department Data for Biosurveillance: The North Carolina Experience. In: Infectious Disease Informatics and Biosurveillance: Research, Systems, and Case Studies, Zeng D, et. al., editors, New York: Springer Publishing Company; 2010; 46-66.

## Refereed Papers / Articles / Letters / Abstracts

### Original Research

1. Harmon KJ, Hakenewerth A, **Waller AE**, Ising A, Tintinalli JE. Begin risk assessment for falls in women and men at 45, not 65. *Injury Prevention*, July 2018, DOI: 10.1136/injuryprev-2018-042875. [Epub ahead of print]
2. Harmon KJ, Proescholdbell SK, Register-Mihalik J, Richardson DB, **Waller AE**, Marshall SW. Characteristics of sports and recreation-related emergency department visits among school-age children and youth in North Carolina, 2010-2014. *Injury Epidemiology*, May 2018; 5:23.
3. Harmon KJ, Haskell MG, Mann CH, **Waller AE**. Snakebites treated in North Carolina emergency departments, October 2013-September 2015. *Wilderness and Environmental Medicine*, March 2018; pii: S1080-6032(18)30004-8. DOI: 10.1016/j.wem.2018.01.004. [Epub ahead of print]
4. Jones J, **Waller A**. Motor vehicle crash (MVC) case definitions and how they impact MVC injury surveillance. *North Carolina Medical Journal*, in press, July 2017.
5. La EH, Hassmiller Lich K, Domino M, Seibert J, **Waller AE**. Impact of state psychiatric hospital waitlists on monthly admissions. *Psychiatric Services*, August 2017; DOI: 10.1176/appi.ps.201600578.
6. Harduar Morano L, Ising A, **Waller A**. Evaluation of the components of the North Carolina syndromic surveillance heat syndrome case definition. *Public Health Reports*, July 2017; 132(S1):40S-47S. DOI: 10.1177/0033354917710946.
7. Yau R, Golightly Y, Richardson D, Runfola C, **Waller A**, Marshall S. Injuries among elite pre-professional ballet and contemporary dancers. *Journal of Dance, Medicine and Science*, June 2017; 21(2):53063. DOI: 10.12678/1089-313X.21.2.53.
8. Brice J, Shofer F, Cowden C, Lerner B, Psioda M, Arasaranadam M, Mann C, Fernandez A, **Waller A**, Moss C, Mian M. Evaluation of the implementation of the Trauma Triage and Destination Plan on the field triage of injured patients in North Carolina. *Prehospital Emergency Care*, April 2017; 21(5):591-604. DOI:10.1080/10903127.2017.1308606.
9. Ising A, Proescholdbell S, Harmon K, Sachdeva N, Marshall S, **Waller A**. Use of syndromic surveillance data to monitor poisonings and drug overdoses in state and local public health agencies. *Injury Prevention*, 2016; 22:i43-i49.
10. Reardon J, Harmon K, Schult G, Staton C, **Waller A**. Use of diagnosis codes for detection of clinically significant opioid poisoning in the emergency department: A retrospective analysis of a surveillance case definition. *BMC Emergency Medicine*, 2016; 16:11. DOI: 10.1186/s12873-016-0075-4. <http://www.biomedcentral.com/1471-227X/16/11>
11. Fuhrmann C, Sugg M, Konrad C, **Waller A**. Impact of extreme heat events on emergency department visits in North Carolina (2007-2011). *Journal of Community Health*, February 2016; 41(1):146-156.

DOI: 10.1007/s10900-015-0080-7.

12. Hakenewerth A, Tintinalli J, **Waller AE**, Ising A. Emergency department utilization by patients  $\geq$  65 years old with mental health disorders in North Carolina from 2008-2010. *Western Journal of Emergency Medicine*, 2015; 16(7):1142-1145. DOI: 10.5811/westjem.2015.8.27662.
13. Sun X, **Waller AE**, Yeatts KB, Thie L. Pollen concentration and allergic disease exacerbations in Wake County, North Carolina, 2006-2012: Distinct association by pollen type and disease type. *Science of the Total Environment*, 2015; 544:185-191.
14. Harmon KJ, Marshall SW, Proescholdbell SK, Naumann RB, **Waller AE**. Motorcycle Crash-related Emergency Department Visits and Hospitalizations and Traumatic Brain Injuries in North Carolina. *Journal of Head Trauma Rehabilitation*, 2015; 30(3): 175-184.
15. Fangman MT, Samoff E, DiBiase L, MacDonald PDM, **Waller AE**. Routine dissemination of summary surveillance data leads to greater usage at local health departments in North Carolina. *Journal of Public Health and Epidemiology*, 2015; 7(1): 1-5.
16. Haas SW, Travers DA, **Waller A**, Mahalingam D, Crouch J, Schwartz TA, Mostafa J. Emergency Medical Text Classifier: New system improves processing and classification of triage notes. *Online Journal of Public Health Informatics*, 6(2), 2014.
17. Hunold KM, Richmond NL, **Waller AE**, Cutchin MP, Voss PR, Platts-Mills TF. Primary Care Availability and Emergency Department Use by Older Adults: A Population-Based Analysis. *J Am Geriatr Soc*. 2014 Sep; 62(9):1699-706.
18. Travers D, Hassmiller Lich K, Lippmann SJ, Weinberger M, Yeatts KB, Liao W, **Waller A**. Definition of emergency department asthma visits for public health surveillance. *Preventing Chronic Disease*, 2014; 11:130329.
19. Sacks J, Rappold AG, Davis JA, Richardson DB, **Waller AE**, Luben TJ. Influence of urbanicity and county characteristics on ozone-related asthma emergency department visits in North Carolina. *Environmental Health Perspectives*, 2014; 122(5):506-512.
20. Samoff E, Fangman MT, Hakenewerth A, Ising A, **Waller AE**. Use of syndromic surveillance at local health departments: movement toward more effective systems. *Journal of Public Health Management and Practice*, 2014; 20(4):E25-30.
21. Rhea S, Weber D, Poole C, **Waller A**, Ising A, Williams C. Epidemiology of animal bite injuries: A novel method for identifying animal bite-related emergency department visits from a statewide public health surveillance system. *Journal of the American Veterinary Medicine Association JAVMA*, 2014; 244(5):597-603.
22. Kerr ZY, Harmon KJ, Marshall SW, Proescholdbell SK, **Waller AE**. The epidemiology of traumatic brain injuries reporting to emergency department in North Carolina 2010-2011. *NC Medical Journal*, 2014; 75(1):8-14.
23. Travers D, Haas SW, **Waller AE**, Schwartz TA, Mostafa J, Best NC, Crouch J. Implementation of Emergency Medical Text Classifier for syndromic surveillance. *Proceedings of the 2013 American Medical Informatics Association*, 2013; 1365-1374.

24. Samoff E, DiBiase L, Fangman MT, Fleischauer AT, **Waller AE**, MacDonald PDM. We can have it all: Improved surveillance outcomes and decreased costs associated with electronic reportable disease surveillance, North Carolina, 2010. *American Journal of Public Health*, 2013; 103(12):2292-2297.
25. Lippmann S, Yeatts K, **Waller A**, Hassmiller Lich, K, Travers D, Weinberger M, Donohue J. Hospital admissions and return emergency department visits resulting from chronic pulmonary disease-related emergency department visits in North Carolina. *American Journal of Emergency Medicine*, 2013; 31(9):1393–1396. <http://dx.doi.org.libproxy.lib.unc.edu/10.1016/j.ajem.2013.06.010>
26. Samoff E, Fangman MT, Fleischauer AT, **Waller AE**, MacDonald PDM. Improvements in timeliness resulting from the implementation of electronic laboratory reporting and an electronic disease surveillance system. *Public Health Reports*, 2013; 128(5):393-398.
27. Hakenewerth A, Tintinalli JE, **Waller AE**, Ising AI, DeSelm T. Emergency department visits in North Carolina by patients with mental health disorders, 2008-2010. *MMWR*, 2013; 62(23):469-472.
28. Lippmann SJ, Fuhrmann CM, **Waller AE**, Richardson DB. Ambient temperature and emergency department visits for heat-related illness in North Carolina, 2007-2008. *Environmental Research*, 2013; 124:35-42. <http://dx.doi.org/10.1016/j.envres.2013.03.009>
29. Yeatts K, Lippmann SJ, **Waller A**, Hassmiller Lich K, Travers D, Weinberger M, Donohue JF. Acute exacerbations of COPD in the emergency department (ED): ED returns, hospital admissions, and comorbidity risks. *CHEST*, 2013; 144(3):784-793.
30. Leak A, Mayer D, Wyss A, Travers D, **Waller A**. Why do cancer patients die in the emergency department (ED)? An analysis of 283 deaths in NC EDs. *American Journal of Hospice and Palliative Care*, 2013; 30(2):178-182 (published online May 2012).
31. Samoff E, MacDonald PDM, Fangman MT, **Waller AE**. Local surveillance practice evaluation in North Carolina and value of new national accreditation measures. *Journal of Public Health Management and Practice*, 2013; 19(2):146-152.
32. Lich KH, Travers D, Psek W, Weinberger M, Yeatts K, Liao W, Lippman SJ, Njord L, **Waller AE**. Emergency department visits attributable to asthma in North Carolina, 2008. *North Carolina Medical Journal*, 2013; 74(1):9-17.
33. Rhea S, Ising A, **Waller A**, Haskell MG, Weber DJ. Using ICD-9-CM E-codes in addition to chief complaint keyword searches for identification of animal bite-related emergency department visits (comment). *Public Health Reports*, 2012; 127(6):561-2.
34. Samoff E, **Waller AE**, Fleischauer A, Ising A, Davis M, Park M, Haas SW, DiBiase L, MacDonald PDM. Integration of syndromic surveillance data into public health practice at state and local levels. *Public Health Reports*, 2012; 127(3):310-317.
35. Rhea S, Ising A, Deyneka L, Vaughn-Batten H, Fleischauer A, **Waller A**. Using near real-time morbidity data to identify heat-related illness prevention strategies in North Carolina. *Journal of Community Health*, 2012; 37(2): 495-500 (published online September, 2011).
36. Zhao Y, Zeng D, Herring AH, Ising A, **Waller AE**, Richardson D, Kosorok MR. Detecting disease outbreaks using local spatiotemporal methods. *Biometrics*, 2011; 67: 1508-1517. (Winner of 2011 Best Paper in Biometrics by an IBS Member Award.)

37. Rhea S, Glickman S, **Waller A**, Ising A, Williams C, Glickman L. Association of doxycycline prescriptions and tick-related emergency department visits in North Carolina. *Southern Medical Journal*, 2011; 104(9): 653-658.
38. Mayer D, Travers D, Wyss A, Leak A, **Waller A**. Why do cancer patients visit emergency departments? Results of a 2008 population study in North Carolina. *Journal of Clinical Oncology*, 2011, 29(19): 2683-2688.
39. Rhea S, Glickman S, **Waller A**, Ising A, Maillard J, Lund E, Glickman L. Evaluation of routinely collected veterinary and human health data for surveillance of human tick-borne diseases in North Carolina. *Vector-Borne and Zoonotic Diseases*, 2010; 11(1): 9-14.
40. **Waller AE**, Hakenewerth AM, Tintinalli JE, Ising AI. Annual report of North Carolina emergency department data, January 1, 2007 – December 31, 2007. *NC Med J*, 2010; 71(1): 15-25.
41. Hakenewerth AM, **Waller AE**, Ising AI, Tintinalli JE. NC DETECT and NHAMCS: Comparison of emergency department data. *Academic Emergency Medicine*, 2009; 16:261-269 (published online December 31, 2008).
42. Travers DA, **Waller AE**, Katznelson J, Agans R. Reliability and validity of the Emergency Severity Index for pediatric triage. *Academic Emergency Medicine*, 2009; 16:843-849 (published online August 31, 2009).
43. Haas SW, Travers DA, Tintinalli JE, Pollock D, **Waller AE**, et al. Towards vocabulary control for chief complaint. *Academic Emergency Medicine*, 2008; 5:476-82.
44. West SL, D'Aloisio AA, Ringle-Kulka T, **Waller AE**, Bordley C. Population-based drug-related anaphylaxis in children and adolescents captured by South Carolina Emergency Room Hospital Discharge Database (SCERHDD) (2000–2002). *Pharmacoepidemiology and Drug Safety*, 2007; 12:1255-67. Published online in Wiley InterScience (www.interscience.wiley.com) DOI: 10.1002/pds.1502.
45. **Waller AE**, Ising AI, Deyneka L. North Carolina emergency department visit data available for public health surveillance. *NC Med J July/August 2007*; 68(4): 289-291.
46. Scholer MJ, Ghneim GS, Wu S, Westlake M, Travers DA, **Waller AE**, McCalla AL, Wetterhall SF. Defining and applying a method for improving the sensitivity and specificity of an emergency department early event detection system. *American Medical Informatics Association Annual Symposium Proceedings*, 2007: 651-655.
47. Travers DA, Wu S, Scholer MJ, Westlake M, **Waller AE**, McCalla AL. Evaluation for a chief complaint pre-processor for biosurveillance. *American Medical Informatics Association Annual Symposium Proceedings*, 2007:736-740.
48. Haas S, Travers D, **Waller A**, Kramer-Duffield J. What is an event? Domain constraints for temporal analysis of chief complaints and triage notes. *Proceedings of the 2007 Annual Meeting of the American Society for Information Science and Technology*, 4 pages.
49. Sanford C, Marshall SW, Martin SL, Coyne-Beasley T, **Waller AE**, Cook PJ, Norwood T, Demissie Z. Deaths from violence in North Carolina, 2004: How deaths differ in females and males. *Injury Prevention*, 2006; 12:10-16.

50. Travers D, Barnett C, Ising A, **Waller AE**. Timeliness of emergency department diagnosis for syndromic surveillance. *American Medical Informatics Association Annual Symposium Proceedings*, 2006: 769-773.
51. Ising A, **Waller AE**, McLamb J, Eubanks T. North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT). *HIMSS Conference Proceedings*, 2006, 14 pages.
52. Sickbert-Bennett EE, Scholer MJ, Butler J, Travers D, MacFarquhar JK, **Waller AE**, Ghneim G. Evaluation of a syndromic surveillance system for the detection of acute infectious gastroenteritis outbreaks – North Carolina, 2004. In: *Syndromic Surveillance: Reports from a National Conference*, 2004. *MMWR* 2005; 54(Suppl):203.
53. Marshall SW, Loomis DP, **Waller AE**, Bird YN, Chalmers DJ, Feehan M, Quarrie KL. Limited effectiveness of protective equipment in Rugby Union. *International Journal of Epidemiology*, 2005; 34:113-118.
54. Runyan CW, Johnson RM, Yang J, **Waller AE**, Perkis D, Marshall SW, Coyne-Beasley T, McGee KS. Risk and protective factors for fires, burns, and carbon monoxide poisoning in U.S. households. *American Journal of Preventive Medicine*, 2005; 28(1):102-108.
55. Runyan CW, Casteel C, Perkis D, Black C, Marshall SW, Johnson RM, Coyne-Beasley T, **Waller AE**. Unintentional injuries in the home in the United States - part I: mortality. *American Journal of Preventive Medicine*, 2005; 28(1):73-79.
56. Runyan CW, Perkis D, Marshall SW, Johnson RM, Coyne-Beasley T, **Waller AE**, Black C, Baccaglini L. Unintentional injuries in the home in the United States - part II: morbidity. *American Journal of Preventive Medicine*, 2005; 28(1):80-87.
57. Marshall SW, Runyan CW, Yang J, Coyne-Beasley T, **Waller AE**, Johnson RM, Perkis D. Prevalence of selected risk and protective factors for falls in the home. *American Journal of Preventive Medicine*, 2005; 28(1):95-101.
58. Travers DA, Haas SW, **Waller AE**, Tintinalli JE. Diagnosis clusters for emergency medicine. *Academic Emergency Medicine*, 2003; 10 (12): 1337-1344.
59. Travers DA, **Waller AE**, Haas SW, Lober WB, Beard C. Emergency department data for bioterrorism surveillance: electronic data availability, timeliness, sources, and standards. *American Medical Informatics Association Annual Symposium Proceedings*, 2003:664-668.
60. Travers DA, **Waller AE**, Bowling JM, Flowers D, Tintinalli JE. Five-level triage system more effective than three-level in tertiary emergency department. *Journal of Emergency Nursing*, 2002; 28(5):395-400.
61. Simpson J, Chalmers DJ, **Waller AE**. The New Zealand Injury and Performance Project: developing Tackling Rugby Injury, a national injury prevention program. *Health Promotion Journal of Australia*, 2002; 13(1):44-50.
62. Marshall SW, **Waller AE**, Dick RW, Pugh CB, Loomis DP, Chalmers DJ. An ecologic study of protective equipment and injury in two full contact sports. *International Journal of Epidemiology*, 2002; 31:587-592.



63. Marshall SW, **Waller AE**, Loomis DP, Feehan M, Chalmers DJ, Bird YN, Quarrie KL. Use of protective equipment in a cohort of rugby players. *Medicine and Science in Sports and Exercise*, 2001; 33(12):2131-2138.
64. Quarrie KL, Alsop JC, **Waller AE**, Bird YN, Marshall SW, Chalmers DJ. The New Zealand Rugby Injury and Performance Project. VI. A prospective cohort study of risk factors for injury in rugby union football. *British Journal of Sports Medicine*, 2001; 35(3):157-66.
65. Hawkins SC, Morgan S, **Waller AE**, Winslow T, McCoy M. Effects of ground EMS on aeromedical trauma on-site times. *Air Medical Journal*, 2001; 20(3):32-36.
66. **Waller AE**, Martin SL, Ornstein ML. Health related surveillance data on violence against women: state and local sources. *Violence Against Women*, 2000; 6(8): 868-903.
67. Marshall S, **Waller A**, Loomis D, Langlois J. Selection of controls in injury case-control studies. *Annals of Epidemiology*, 2000; 10(7):455.
68. **Waller AE**, Daniels JL, Weaver NL, Robinson P. Jockey injuries in the United States. *JAMA*, 2000; 283(10):1326-1328.
69. Bird YN, **Waller AE**, Marshall SW, Alsop JC, Chalmers DJ, Gerrard DF. The New Zealand Rugby Injury and Performance Project: V. Epidemiology of a season of rugby injury. *British Journal of Sports Medicine*, 1998; 32(4):319-325.
70. **Waller AE**, Marshall SW, Langley JD. Adult thermal injuries in New Zealand resulting in death and hospitalization. *Burns*, 1998; 24:245-251.
71. Dufort VM, Kotch JB, Marshall SW, **Waller AE**, Langley JD. Occupational injuries among adolescents in Dunedin, New Zealand, 1990-1993. *Annals of Emergency Medicine*, 1997; 30(3):266-273.
72. Quarrie KL, Feehan M, **Waller AE**, Cooke KR, Williams S, McGee R. The New Zealand Rugby Injury and Performance Project: Alcohol use patterns within a cohort of rugby players. *Journal of Addiction*, 1996; 91(12): 1865-1868.
73. Williamson DS, Bangdiwala SI, Marshall SW, **Waller AE**. Repeated measures analysis of binary outcomes: applications to injury research. *Accident Analysis and Prevention*, 1996; 28(5):571-579.
74. **Waller AE**, Hohenhaus SM, Shah PJ, Stern EA. Development and validation of an emergency department screening and referral protocol for victims of domestic violence. *Annals of Emergency Medicine*, 1996; 27(6): 754-760.
75. Quarrie KL, Handcock P, Toomey MJ, **Waller AE**. The New Zealand Rugby Injury and Performance Project: IV. Anthropometric and physical performance comparisons between positional groups of Senior A rugby players. *British Journal of Sports Medicine*, 1996; 30(1): 53-56.
76. Feehan M, **Waller AE**. Pre-competition injury and subsequent tournament performance in full-contact taekwondo. *British Journal of Sports Medicine*, 1995; 29(4): 258-262.
77. Quarrie KL, Handcock P, **Waller AE**, Chalmers DJ, Toomey MJ, Wilson BD. The New Zealand Rugby Injury and Performance Project: III. Anthropometric and physical performance characteristics of players. *British Journal of Sports Medicine*, 1995; 29(4): 263-270.

78. Bird YN, **Waller AE**, Chalmers DJ. The New Zealand Rugby Injury and Performance Project: playing experience and demographic characteristics. *Journal of Physical Education New Zealand*, 1995; 28(2): 12-16.
79. Clarke J, **Waller AE**, Marshall SW, Langley JD. Barriers to the reduction of domestic hot water temperatures. *Safety Science*, 1995; 18:181-192.
80. **Waller AE**, Feehan M, Marshall SW, Chalmers DJ. The New Zealand Rugby Injury and Performance Project: I. Design and methodology of a prospective follow-up study. *British Journal of Sports Medicine*, 1994; 28(4): 223-228.
81. Gerrard DF, **Waller AE**, Bird YN. The New Zealand Rugby Injury and Performance Project: II. Previous injury experience of a rugby playing cohort. *British Journal of Sports Medicine*, 1994; 28(4): 229-233.
82. **Waller AE**, Langley JD, Clarke J. Tap water scalds in New Zealand. *American Journal of Public Health*, 1994; 84(9) 1524.
83. **Waller AE**, Marshall SW. Childhood thermal injuries in New Zealand resulting in death and hospitalisation. *Burns*, 1993; 19:371-376.
84. **Waller AE**, Clarke J, Langley JD. An evaluation of a programme to reduce home hot tap water temperatures. *Australian Journal of Public Health*, 1993; 17(2):116-123.
85. **Waller AE**, Marshall SW. Epidemiology of thermal injury in New Zealand children: an overview. In "Proceedings of the National Childhood Injury Prevention Forum, September, 1991, Wellington". Dunedin: Child Accident Prevention Foundation of New Zealand, August, 1992, pp. 48-51.
86. Baker SP, **Waller AE**, Langlois JA. Motor vehicle deaths in children: geographic variations. *Accident Analysis and Prevention*, 1991; 23(1): 19-28.
87. Dickson N, Martin M, **Waller AE**. Hot water temperature in Dunedin homes with preschool children. *New Zealand Medical Journal*, 1990; 103:452-454.
88. **Waller AE**, Baker SP, and Szocka A. Childhood injury deaths: national analysis and geographic variations. *American Journal of Public Health*, 1989; 79(3):310-315.

#### **Letters to the Editor**

1. Marshall SW, Poole C, **Waller AE**. Sunscreen use and malignant melanoma risk: the jury is still out. *American Journal of Public Health*, 2003; 93:11-12.
2. Pugh CB, **Waller AE**, Marshall SW. Physical activity and injury. *Journal of the American Medical Association*, 1995; 274(7) 533.

#### **Published Peer Reviewed Abstracts (since 2006)**

1. **Waller A**, Harmon KJ, Geary S, Ising A, Hakenewerth A, Tintinalli J, Proescholdbell S. Informing public health prevention in NC using falls surveillance data. *Online Journal of Public Health Informatics*, 2018; 10(1):e142. (abstract).
2. Harmon KJ, Ising A, Proescholdbell S, **Waller A**. Beyond mortality: Violent injury surveillance using

- NC DETECT ED visit data. *Online Journal of Public Health Informatics*, 2018;10(1):e99. (abstract).
3. Travers D, **Waller A**, Zegre-Hemsey J, Asafu-Adjei J, Beaudry A, Tintinalli J. Development of a case definition for emergency department visits attributable to life-threatening aortic dissections. *American Medical Informatics Association Symposium Proceedings*, 2016; (abstract).
  4. **Waller AE**, Harmon KJ, Ising AI. Lessons learning from the transition to ICD-10-CM: Redefining case-definitions for syndromic surveillance in NC DETECT. *Online Journal of Public Health Informatics*, 2016; 8(1):d78. (abstract).
  5. Faigen Z, Ising A, Deyneka L, **Waller A**. Triage notes in syndromic surveillance – a double edged sword. 2015 ISDS Conference Proceedings. *Online Journal of Public Health Informatics*, 2016; 8(1):d179. (abstract).
  6. Jones JL, Falls DM, Barnett CA, Ising AI, **Waller AE**. Motor vehicle crash (MVC) case definitions and how they impact MVC surveillance. *Online Journal of Public Health Informatics*, 2016; 8(1):de126. (abstract).
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  9. Brice JH, Cowden CC, Shofer FS, Lerner EB, Mann NC, Moss C, Fernandez AR, **Waller AE**. Evaluating a statewide intervention of EMS field triage protocols: Decision-making and patient outcomes. *Academic Emergency Medicine*. 22(S1):S146. May 2015 (abstract).
  10. Waller A, Lippmann S, Ising A, Crump C. Childhood injury in Wake County, NC: Local use of public health surveillance data. 2014 ISDS Conference Proceedings. *Online Journal of Public Health Informatics*, 2015; 7(1) (abstract).
  11. Ising A, Harmon K, **Waller A**, Proescholdbell S, Deyneka L. Using NC DETECT for comprehensive morbidity surveillance on poisoning and overdose. 2014 ISDS Conference Proceedings. *Online Journal of Public Health Informatics*, 2015; 7(1) (abstract).
  12. Ising A, Barnett C, Falls D, **Waller A**, Wallace J, Deyneka L. Assessing the potential impact of the BioSense 24-hour rule using NC DETECT ED data. 2014 ISDS Conference Proceedings. *Online Journal of Public Health Informatics*, 2015; 7(1) (abstract).
  13. Haas S, Travers D, **Waller A**, Mahalingam D, Crouch J, Schwartz T, Mostafa J. Emergency Medical Text Classifier: New system improves processing and classification of triage notes. 2013 ISDS Conference Proceedings. *Online Journal of Public Health Informatics*, 2014; 6(2) (abstract).
  14. Harmon KJ, Proescholdbell S, Marshall SW, **Waller A**. Utilization of Emergency Department Data for Drug Overdose Surveillance in NC. 2013 ISDS Conference Proceedings. *Online Journal of Public Health Informatics*, 2014; 6(1) (abstract).

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16. Samoff E, Fangman MT, Deyneka L, Ising A, **Waller, A**. Adapting syndromic surveillance systems to increase value to local health departments. 2012 ISDS Conference Proceedings. Online Journal of Public Health Informatics, 2013; 5(1) (abstract).
17. Lippmann SJ, Yeatts KB, **Waller A**, Hassmiller Lich K, Travers D, Weinberger M, Donohue JF. COPD-related ED visits in North Carolina: hospitalizations and return visits. 2012 ISDS Conference Proceedings. Online Journal of Public Health Informatics, 2013; 5(1) (abstract).
18. Mahalingam D, Mostafa J, Travers D, Haas SW, **Waller AE**. Automated syndrome classification using early phase emergency department data. Proceedings of the American Computing Machinery Special Interest Group on Healthcare Information Technology (ACM SIGHIT) 2<sup>nd</sup> International Health Informatics Symposium, Miami, FL, January 2012 (abstract).
19. Ising A, Li M, Deyneka L, Vaughn-Batten H, **Waller A**. Improving syndromic surveillance for non-power users: NC DETECT dashboards. Emerging Health Threats Journal, 2011; 4:11033 - DOI: 10.3402/ehjt.v4i0.11033 (abstract).
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21. Travers D, Hassmiller Lich K, Lippmann S, **Waller A**, Weinberger M, Yeatts K. Defining emergency department asthma visits for public health Surveillance. Emerging Health Threats Journal, 2011; 4:11042 - DOI: 10.3402/ehjt.v4i0.11042 (abstract).
22. Vaughn-Batten H, Deyneka L, Ising A, **Waller A**. Data requests for research: best practices based on the NC DETECT experience. Emerging Health Threats Journal, 2011; 4:11094 - DOI: 10.3402/ehjt.v4i0.11094 (abstract).
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31. Li M, Ising A, Havaldar R, **Waller AE**. Multi-tier role based access for secure and flexible syndromic surveillance. *Advances in Disease Surveillance*, 2007; 2:158 (abstract).
32. Barnett C, Deyneka L, **Waller AE**. Post-Katrina situational awareness in North Carolina. *Advances in Disease Surveillance*, 2007; 2:142 (abstract).
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34. Ising A, Li M, **Waller AE**. Documenting alerts within a Web-based early event detection system. *American Medical Informatics Association Symposium Proceedings*, 2006; 964 (abstract).
35. Rosenau AM, **Waller A**, Trocinski D, Travers D, Mecham N, Katznelson J, Hohenhaus S, Eubanks T, Rupp V, Eitel D. Is the Emergency Severity Index reliable for pediatric triage? *Annals of Emergency Medicine*, 2006; 4S:62-63 (abstract).
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40. Li M, Ising AI, **Waller AE**, Falls D, Eubanks T, Kipp A. North Carolina Bioterrorism and Emerging Infection Prevention System. *Advances in Disease Surveillance*, 2006; 1:80 (abstract).
41. Travers D, Kipp A, MacFarquhar J, **Waller A**. Evaluation of Emergency Medical Text Processor for pre-processing chief complaint data for syndromic surveillance. *Advances in Disease Surveillance*, 2006; 1:71 (abstract).
42. Scholer MJ, MacFarquhar J, Sickbert-Bennett E, Kipp A, Travers D, **Waller A**. Reverse engineering of a syndrome definition for influenza. *Advances in Disease Surveillance*, 2006; 1:64 (abstract).

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### **In Press and Submitted Papers/Articles**

1. Yau RK, Runfola CD, Golightly YM, Richardson DB, **Waller AE**, Marshall SW. Possible disordered eating among elite preprofessional ballet and contemporary dancers. Submitted to *International Journal of Eating Disorders*, January 2016. Undergoing major revision (approximately 15 pages).
2. Lippmann SJ, **Waller AE**, Proescholdbell SK, Poole C, Konrad CE, Richardson DB. County-level daily mean temperatures and emergency department visits for unintentional injury, adverse medical effects, and intentional assault, North Carolina, April-October, 2008-2013. Submitted to *Epidemiology*, June 2015; revised and resubmitted September 2015 (approximately 47 pages).
3. Psek W, Lich KH, Travers D, **Waller AE**, Weinberger M. Improving processes of care for acute asthma exacerbations in the emergency department: a systems perspective and systematic literature review. Submitted to *Medical Care and Research Review*, December 2012; in revision (approximately 38 pages).

### **Monographs and Published Reports (internally refereed)**

1. Harmon KJ, Proescholdbell S, **Waller A**, Barnett C. A response to the Safe States Alliance Injury Surveillance Workgroup (ISW-7) ICD-9-CM Poisoning Matrix. Report from The Carolina Center for Health Informatics, Department of Emergency Medicine, University of North Carolina at Chapel Hill, February 2013. Available at: <http://www.ncdetect.org/>
2. Fangman MT, Samoff E, **Waller A**. Having the cake and eating it too: Improved surveillance outcomes and decreased costs associated with electronic reportable disease surveillance system in North Carolina, 2010. Research Brief from The North Carolina Preparedness and Emergency Response Research Center (NCPERRC), UNC Gillings School of Global Public Health, October 2012.
3. Harmon KJ, **Waller AE**, Barnett C, Proescholdbell SK, Marshall S, Dellapenna AJ. The UNC Department of Emergency Medicine Carolina Center for Health Informatics report, overview and analysis of NC DETECT emergency department data for injuries: 2010. UNC Department of Emergency Medicine, June 2012.
4. Fangman MT, Samoff E, DiBiase L, MacDonald PDM, **Waller A**. Local surveillance practice and implications for public health accreditation: the North Carolina example. Research Brief from The North Carolina Preparedness and Emergency Response Research Center (NCPERRC), UNC Gillings School of Global Public Health, April 2012.
5. Fangman MT, Samoff E, DiBiase L, MacDonald PDM, **Waller A**. Local health department electronic surveillance: best practices and costs, North Carolina, 2010. Research Brief from The North Carolina Preparedness and Emergency Response Research Center (NCPERRC), UNC Gillings School of Global Public Health, April 2012.
6. Samoff E, Davis M, Park M, **Waller A**, MacDonald P. Evaluation of syndromic surveillance data use for communicable disease control practice in North Carolina, 2009. Summary of Report of Findings to the North Carolina Division of Public Health. Research Brief from The North Carolina Preparedness and Emergency Response Research Center (NCPERRC), UNC Gillings School of Global Public Health, January 2012.

7. Tintinalli J, Hakenewerth H, Ising A, **Waller A**, DeSelm T. The prevalence of mental health disorders in patients who visit the ED. Chapel Hill, NC: UNC Department of Emergency Medicine, Carolina Center for Health Informatics, July 2011.
8. Tintinalli J, Hakenewerth H, Ising A, **Waller A**, DeSelm T. The prevalence of substance abuse disorders in patients who visit the ED. Chapel Hill, NC: UNC Department of Emergency Medicine, Carolina Center for Health Informatics, July 2011.
9. Samoff E, DiBiase L, Fangman MT, Davis M, **Waller AE**, MacDonald PDM. Use of the North Carolina Electronic Disease Surveillance System in local health departments: summary of findings. Chapel Hill, NC: The North Carolina Preparedness and Emergency Response Research Center (NCPERRC), UNC Gillings School of Global Public Health, June 2011.
10. Schinasi L, **Waller AE**, Ising A, Tintinalli JE. The UNC Department of Emergency Medicine Carolina Center for Health Informatics report, overview and analysis of NC DETECT emergency department visit data: 2009. Chapel Hill, NC: UNC Department of Emergency Medicine, Carolina Center for Health Informatics, May 2011.
11. Samoff E, Davis M, Park M, **Waller A**, MacDonald P. Evaluation of syndromics Surveillance data use for communicable disease control practice in North Carolina, 2009. Chapel Hill, NC: The North Carolina Preparedness and Emergency Response Research Center (NCPERRC), UNC Gillings School of Global Public Health, February 2011.
12. Skiles M, Schinasi L, **Waller AE**, Ising A, Tintinalli JE. The UNC Department of Emergency Medicine Carolina Center for Health Informatics report of NC DETECT emergency department data: 2008. Chapel Hill, NC: UNC Department of Emergency Medicine, Carolina Center for Health Informatics, June 2010.
13. Hakenewerth AM, **Waller AE**, Tintinalli JE, Ising A. NC DETECT 2007 annual report, NC emergency department data. Chapel Hill, NC: UNC Department of Emergency Medicine, Carolina Center for Health Informatics, January 2009.
14. Baker SP and **Waller AE**. Childhood injury: state-by-state mortality facts. Baltimore: The Johns Hopkins University Injury Prevention Center, January, 1989.

#### **Commissioned Technical Reports (un-refereed except by funder/contractor)**

1. Wolff CS, Mayer SE, Ising AI, **Waller AE**. A Brief Report on Medication and Drug Overdose, Abuse, and Dependence Case Definitions and Code Usage Trends in North Carolina Emergency Departments, 2016-2017. Chapel Hill, NC: UNC Department of Emergency Medicine, for the NC Division of Public Health, July 2018.
2. Ising AI, Fix J, Wolff CS, **Waller AE**. Exploratory Report on 2017 EMS Encounters with Naloxone Administrations Linked to Emergency Department Data in NC DETECT. Chapel Hill, NC: UNC Department of Emergency Medicine, for the NC Division of Public Health, May 2018.
3. Commissioned Quarterly Progress Reports are submitted by the Infection Control Assessment & Response Data Driven Web-based HAI Prevention Capability Application Project Team to the NC Division of Public Health in each quarter, July 2017 – March 2018.

4. Harmon KJ, **Waller AE**, Harduar Morano L, Ising A. A report on violent injuries treated in North Carolina emergency departments, 2012-2015. Chapel Hill, NC: UNC Department of Emergency Medicine, for the NC Division of Public Health, June 2017.
5. Commissioned Quarterly Progress Reports are submitted by the Prescription Drug Overdose, Violence and Alcohol-Related Injury Project Team to the NC Division of Public Health in each quarter, beginning June 2017, ongoing to present.
6. Harmon KJ, Barnett C, Marshall SW, **Waller AE**. Implementing the external cause matrix for injury morbidity – North Carolina Emergency Department Data – January 2015-May 2015 / January 2016-May 2016. Chapel Hill, NC: UNC Department of Emergency Medicine, for the NC Division of Public Health, July 2016.
7. Harmon KJ, Barnett C, Marshall SW, **Waller AE**. A report on the completeness and validity of external cause of injury coding in North Carolina emergency departments as related to diagnosed injuries – 2014 update. Chapel Hill, NC: UNC Department of Emergency Medicine, for the NC Division of Public Health, May 2016.
8. Shanahan ME, **Waller AE**, McCort AD. Planning a community network for the prevention of child maltreatment. Chapel Hill, NC: Injury Prevention Research Center, for the John Rex Endowment, May 2016.
9. Harmon KJ, **Waller AE**, Barnett C, Marshall SW. A report on the external cause of injury coding among North Carolina emergency department visits due to falls. Chapel Hill, NC: UNC Department of Emergency Medicine, for the NC Division of Public Health, May 2015.
10. Harmon KJ, Barnett C, Marshall SW, **Waller AE**. A report on the completeness and validity of external cause of injury coding in North Carolina emergency departments as related to diagnosed injuries – 2013 update. Chapel Hill, NC: UNC Department of Emergency Medicine, for the NC Division of Public Health, January 2015.
11. Commissioned Quarterly Reports are submitted by the Motor Vehicle Crash Injuries in Wake County Project Team to the NC Governor’s Highway Safety Program in each quarter, beginning December 2014, ongoing to present.
12. Commissioned Quarterly Progress Reports are submitted by the Meaningful Use Registration Site Portal Project Team to the NC Division of Public Health in each quarter, beginning June 2014, ongoing to present.
13. The Healthy Solutions Team and the Carolina Center for Health Informatics. Wake County Childhood Injury Assessment Project Technical Report. Chapel Hill, NC: UNC Departments of Health Behavior and Emergency Medicine, for the John Rex Endowment, February 2014.
14. Harmon KJ, Barnett C, Marshall SW, **Waller AE**. A report on the completeness and validity of external cause of injury coding in North Carolina emergency departments as related to diagnosed injuries – 2012 update. Chapel Hill, NC: UNC Department of Emergency Medicine, for the NC Division of Public Health, October 2013.
15. Harmon KJ, Barnett C, Marshall SW, **Waller AE**. North Carolina Surveillance Quality Improvement Project: Improving E-coding in emergency department data. A report on the completeness and validity



of external cause of injury coding in North Carolina emergency departments as related to diagnosed injuries. Chapel Hill, NC: UNC Department of Emergency Medicine, for the NC Division of Public Health, June 2012.

16. Commissioned Quarterly Reports are submitted by the Surveillance Quality Initiative (SQI) Project Team to the NC Division of Public Health in each quarter, May 2012-July 2016.
17. Commissioned Quarterly Reports are submitted by the NC DETECT Project Team to the NC Division of Public Health in each quarter, beginning October 2004, ongoing to present.
18. NC DETECT Project Team. NC DETECT 4.0, User Guide Version 1.0. Chapel Hill, NC: UNC Department of Emergency Medicine, for the NC Division of Public Health, August 2006; updated March 2007, October 2007, October 2008, October 2009, October 2010, October 2011, October 2012.
19. NC DETECT Project Team. NC DETECT Data Quality Report, Version 1.0. Chapel Hill, NC: UNC Department of Emergency Medicine, for the NC Division of Public Health, June 2006; updated March 2008, April 2009, October 2010, September 2011, September 2012.
20. NC DETECT Project Team. NC DETECT Security Policies and Procedures Document. Chapel Hill, NC: UNC Department of Emergency Medicine, for the NC Division of Public Health, July 2008.
21. NCEDD Project Team. Technical Report of the North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) Version 2.0. Chapel Hill, NC: UNC Department of Emergency Medicine, for the NC Division of Public Health, March 2006.
22. NC DETECT Syndromic Surveillance Workgroup. NC DETECT Syndrome Case Definitions and SQL Statements. Chapel Hill, NC: UNC Department of Emergency Medicine, for NC Division of Public Health, November 2005.
23. NCEDD Project Team. Technical Report of the North Carolina Bioterrorism and Emerging Infections Prevention System (NC BEIPS) Version 1.3. Chapel Hill, NC: UNC Department of Emergency Medicine, for the NC Division of Public Health, July, 2005.
24. Kipp A, Ising A, **Waller AE**, and the NC BEIPS Project Team. Recommendations for Future Progress of the North Carolina Bioterrorism and Emerging Infections Prevention System (NC BEIPS). Chapel Hill, NC: UNC Department of Emergency Medicine, for the NC Division of Public Health, July, 2005.
25. NCEDD Project Team. Technical Report of the North Carolina Bioterrorism and Emerging Infections Prevention System (NC BEIPS) Version 1.0. Chapel Hill, NC: UNC Department of Emergency Medicine, for the NC Division of Public Health, November, 2004.
26. Makarushka C, Magar V, **Waller AE**, Fishel A. Domestic Violence Units: Effective Practices Handbook for Law Enforcement. Raleigh, NC: The Governor's Crime Commission, March 2000.
27. **Waller AE**, Makarushka C, Fishel A, Bowling M, Grammar D. Evaluation of law Enforcement Domestic Violence Units in North Carolina: Helping Reduce Domestic Violence Through a Collaborative Community Response. Chapel Hill, NC: The Center for Urban and Regional Studies, January 2000.
28. **Waller AE**, Martin SL, Ornstein ML. Health Related Surveillance Data on Violence Against Women: State and Local Sources. Background Papers for a Workshop on Building Data Systems for Monitoring and Responding to Violence Against Women, Arlington, VA, USA, October 1998

29. Simpson J, Chalmers DJ, **Waller AE**, Bird YN, Quarrie KL, Gerrard DF, Handcock P, Marshall SW. Tackling Rugby Injury: Recommendations for Reducing Injury to Rugby Union Players in New Zealand. Dunedin: The University of Otago Injury Prevention Research Unit, October, 1994.
30. **Waller AE**, Clarke J. Evaluation of the Hot Tap Water Burn Intervention: Final Report to the ACC. Dunedin: The University of Otago Injury Prevention Research Unit, June, 1991.
31. Clarke J, **Waller AE**. Annotated Bibliography of Thermal Injury Literature with Emphasis on Burns and Scalds from Household Hot Water. Report prepared for the ACC. Dunedin: The University of Otago Injury Prevention Research Unit, February, 1991.
32. Baker SP, **Waller AE**, Robinson EG. The Effect of the Mandatory Seat Belt Use Law in Maryland. A Report to the Maryland Department of Transportation. Baltimore: The Johns Hopkins University Injury Prevention Center, April, 1988.
33. **Waller AE**, Robinson EG, Baker SP. Motor Vehicle Fatalities, Maryland, 1985. A Report to the Maryland Department of Transportation. Baltimore: The Johns Hopkins University Injury Prevention Center, January, 1987.
34. Kugle CL, **Waller AE**, Pendleton OJ, Bremer R. A Statewide Sampling Survey of Child Restraint Usage in Texas. College Station: Texas A&M University Texas Transportation Institute, April, 1985.
35. Hall WL, Orr BT, **Waller AE**, Suttles DT, Daniel RB, Marchetti LO, Council FM. Progress Report on Increasing Child Restraint Usage Through Local Education and Distribution Programs. Chapel Hill: University of North Carolina Highway Safety Research Center, December, 1982.
36. Hall WL, Orr BT, Council FM, Trinkoff AM, Daniel RB, **Waller AE**. Progress Report on Increasing Child Restraint Usage through Local Education and Distribution Programs. Chapel Hill: University of North Carolina Highway Safety Research Center, November, 1981.

## **VI. TEACHING RECORD**

### **Course Directorship**

International Society for Disease Surveillance, Annual Conference Scientific Program Committee, **Public Health Surveillance Track Co-Chair**, San Diego, CA, December 2012.

Emergency Severity Index for pediatric triage: train the trainer workshop, **Co-Director**, Chapel Hill, NC, April 24, 2007.

Towards Vocabulary Control for Chief Complaint, National Consensus Meeting, **Co-Director**, Baltimore, MD, October 2006.

Injury Control and Emergency Health Services Section of the American Public Health Association, **Program Committee Co-Chair**, October 2001 – November 2003. Develop and design section program for annual conference.

Annual Emergency Medicine Research Forum, **Chair**, Chapel Hill, NC, 1997-2003.

### **Lectures/Presentations (given by Anna Waller since 2003)**

#### **International:**

Harmon KJ and **Waller AE**. Data Integration: The Long Road Ahead. Presentation to the 44th Annual International Forum on Traffic Records and Highway Information Systems, Milwaukee, WI, August 13, 2018. (Co-presenter)

Jones J and **Waller AE**. Can linking motor vehicle crash data improve MVC injury surveillance? Presentation to the Making Traffic Matters conference, 42<sup>nd</sup> Annual International Forum on Traffic Records and Highway Information Systems, Baltimore, MD, August 8, 2016. (Co-presenter)

**Waller AE**, Harmon KJ, Ising AI. Lessons learning from the transition to ICD-10-CM: Redefining case-definitions for syndromic surveillance in NC DETECT. Presentation to the International Society for Disease Surveillance Annual Conference, Denver, CO, December 8-10, 2015.

Ising A and **Waller A**. Public health informatics for surveillance: NC DETECT. Webinar lecture given for online DrPH program students in Bill Gentry's Health Informatics Technology, HPM 940 course, July 8, 2014.

Samoff E, Fangman MT, Deyneka L, Ising A, **Waller, A**. Adapting syndromic surveillance systems to increase value to local health departments. International Society for Disease Surveillance Annual Conference, San Diego, CA, December 3-5, 2012.

Lippmann SJ, Yeatts KB, **Waller A**, Hassmiller Lich K, Travers D, Weinberger M, Donohue JF. COPD-Related ED visits in North Carolina: Hospitalizations and return visits. International Society for Disease Surveillance Annual Conference, San Diego, CA, December 3-5, 2012.

#### **National:**

**Waller AE** and Harmon KJ. Data Integration: The Long Road Ahead. Presentation to the Safe Systems Summit: Redefining Transportation Safety, Durham, NC, September 14, 2018.

Jones J and **Waller AE**. Can linking motor vehicle crash data improve MVC injury surveillance? Presentation to the Highway Safety Information System 2016 Liaison Meeting, Chapel Hill, NC, September 9, 2016. (Co-presenter)

**Waller AE**, Ising A, Harmon K, Marshall S, Proescholdbell S. Using syndromic surveillance data for injury surveillance and research: The NC DETECT experience. Invited presentation for Injury and Emergency Health Data Issues session. American Public Health Association Annual Meeting, New Orleans, LA, November 18, 2014.

**Waller AE**, Ising AI. Carolina Center for Health Informatics. Presentation to Steve Bennett, Department of Homeland Security, Chapel Hill, NC March 28, 2012.

Samoff E, MacDonald, PDM, **Waller AE**, Fangman MT. Migrating to electronic public health surveillance: Effects on resource use, surveillance quality, and preparedness at state and local levels North Carolina, 2009-2010 (Presentation and Webinar). CDC Surveillance Brown Bag. Atlanta, GA, February 27, 2012. (Co-presenter)

**Waller AE**, Travers DA, Katznelson J. Emergency Severity Index for pediatric triage. Webinar for Health Resource and Services Administration/ Maternal and Child Health Bureau's Emergency Medical Services for Children Program, Chapel Hill, NC, March 25, 2010.

Hakenewerth A and **Waller AE**. Linking North Carolina's emergency department and ambulance records for disease surveillance (poster). American Public Health Association Annual Meeting, Washington, DC, November 4-7, 2007. (Co-presenter)

**Waller A**, Ising A, Falls D. The North Carolina Disease Event Tracking and Epidemiologic Collection Tool. Webinar for Vendrome Group, Chapel Hill, NC, February 2, 2007.

**Waller AE**, Ising A and Deyneka L. NC DETECT uses and lessons learned. PHIN Annual Conference, Atlanta, GA, Sept. 27, 2006.

**Waller AE**, Ising A and Deyneka L. The North Carolina Disease Event Tracking and Epidemiologic Collection Tool – NC DETECT (Presentation of Davies Public Health Award Winners). PHIN Annual Conference, Atlanta, GA, Sept. 27, 2006.

**Waller A** and Ising A. Public health and biosurveillance: From plan to practice. HIMSS Summit, Washington, DC, June 7-8, 2006.

Cline S, Devlin L, **Waller A**. Overview and demonstration of NC DETECT. Presentation to White House Medical Unit and Senate Staffers, Washington, DC, February 23, 2006. (Co-presenter)

Ising A, **Waller A** and Deyneka L. North Carolina Disease Event Tracking and Epidemiologic Collection Tool. HIMSS Annual Conference, San Diego, CA, February 15, 2006.

Devlin L, Deyneka L, Maillard J-M, **Waller A**. Overview and demonstration of NC DETECT. Presentations to Senate HELP Committee and IBM NHIN Biosurveillance Prototype Group, Washington, DC, January 9, 2006. (Co-presenter)

**Waller A**, Ising A. North Carolina Disease Event Tracking and Epidemiologic Collection Tool: Technical overview. Presentation given as part of the ASTHO Conference Call Series, December 19, 2005. (Co-presenter)

#### **Regional:**

**Waller AE**, Proescholdbell S. Syndromic Surveillance: Expanding use for injury and overdose surveillance in North Carolina. Grand Rounds presentation, West Virginia University Department of Emergency Medicine and Injury Control Research Center, Morgantown, WV, September 28, 2017.

**Waller AE**, Ising AI. User centered design: Lessons learned from NC DETECT (Presentation and Webinar). One Health Collaborative Symposium, Research Triangle Park, NC, April 5, 2011.

Travers DA, Haas SW, **Waller AE**, Reeder T and Spicer S. Evaluation of controlled terminologies for emergency department chief complaint documentation (poster). Southeastern Regional Society for Academic Emergency Medicine Meeting, Chapel Hill, NC, April 8-9, 2005.

#### **State:**

**Waller AE** and Harmon KJ. Data Integration: The Long Road Ahead. Invited presentation to the North Carolina Executive Committee for Highway Safety. Raleigh, NC, September 7, 2018.

Cline S, **Waller A**, Fleischauer A. Building a Use Case: Public Health Surveillance. Task Force on All Payer Claims Database, NC Institute of Medicine, Morrisville, NC, August 26, 2016.

**Waller AE**. GIL asthma systems research. Gillings Laboratory of Innovation for Public Health Surveillance Systems Research meeting with Dr. Megan Davies, North Carolina Division of Public Health, State Epidemiologist, Chapel Hill, NC, September 15, 2010.

**Waller AE**, MacDonald PDM. Public health surveillance systems research. NC Preparedness and Emergency Response Research Center Synergy and Translation Committee meeting, Raleigh, NC, June 17, 2010.

**Waller AE**, MacDonald PDM. Public health surveillance systems research. NC Preparedness and Emergency Response Research Center Synergy and Translation Committee meeting, Chapel Hill, NC, February 25, 2010.

**Waller AE**, Haas SW, Samoff E. Public health surveillance systems research. NCPHA Conference, Asheville, NC, September 30-October 2, 2009.

**Waller A**. Public health surveillance systems research - How can we make NC DETECT more useful to North Carolina public health agencies? (Poster). NCPHA Conference, Asheville, NC, September 30-October 2, 2009.

Samoff E, Haas SW, **Waller AE**. Public health surveillance systems research. NC Preparedness and Emergency Response Research Center Synergy and Translation Committee meeting, Chapel Hill, NC, September 28, 2009.

Samoff E, **Waller AE**. Public health surveillance systems research. NC Preparedness and Emergency Response Research Center Synergy and Translation Committee meeting, Chapel Hill, NC, May 15, 2009.

**Waller AE**, Ising AI. The North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT): An overview. Presentation to meeting of NCSU, RENCI, and NC PERRC. Chapel Hill, NC, February 13, 2009.

**Waller AE**. Public health surveillance systems research. NC Preparedness and Emergency Response Research Center Synergy and Translation Committee meeting, Chapel Hill, NC, February 10, 2009.

**Waller AE**. UNC PERRC Project 2: Public health surveillance systems research. CDC PERRC Webinar presentation, January 22, 2009.

**Waller A**, Ising A, Deyneka L. Timely public health surveillance: The North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT). Webinar presentation for the NC Center for Public Health Preparedness seminar series, Chapel Hill, NC, March 20, 2008.

**Waller AE**. North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT). Presentation to the North Carolina Child Maltreatment Surveillance Workgroup, Raleigh, NC, July 19, 2007.

Deyneka L, Ising A, and **Waller AE**. The North Carolina Disease Event Tracking and Epidemiologic Collection Tool - NC DETECT. NCHICA Annual Conference, Greensboro, NC, Sept. 11, 2006.

**Waller A**, Ising A. NC DETECT Presentation and Web Portals Demonstration. NC Local Health Department Data Prioritization Conference, Chapel Hill, NC, May 22-23, 2006.

Deyneka L, Maillard J-M, **Waller A**. Overview and Demonstration of NC DETECT. NC Annual State Health Director's Conference, Raleigh, NC, January 26, 2006. (Co-presenter)

**Waller AE**. North Carolina Emergency Department Database (NCEDD): an overview. North Carolina Subcommittee for Focus Area B, Surveillance and Epidemiology Capacity, Raleigh, NC, February 19, 2004.

**Waller AE**, McLamb J, Johnson K. The NCEDD Project: Utilizing secure transmission of standardized data for public health and BT surveillance. Presentation to the NCHICA Board of Directors, February 19, 2003.

**Waller AE.** The North Carolina Emergency Department Database (NCEDD). NC State Health Director's Conference, Raleigh, NC. January, 2003.

**Local:**

Krishnamurthy A, **Waller A.** Data linkages and related challenges. Break-out discussion session at the Carolina Health Informatics Program Spring Retreat, Chapel Hill, NC, April 1, 2016. (Co-moderator, discussion leader)

**Waller AE.** Using Syndromic Surveillance Data for Public Health Surveillance and Research: The NC DETECT Experience. Didactic session presented to UNC EMS Fellows Research Meeting, Chapel Hill, NC, January 26, 2016.

Proescholdbell S, **Waller AE.** Injury and Violence Prevention: How Hospital Billing Data Impacts Our Injury Surveillance Efforts. North Carolina Health Information Management Association – Triangle Chapter Meetings, Durham, NC, November 6, 2015. (Co-presenter)

Harmon KJ, Barnett C, Proescholdbell S, Dellapenna A, Marshall S, **Waller AE.** The North Carolina Surveillance Improvement Project: Improving injury surveillance in the state. Mid Carolina RAC, Alamance Regional Medical Center, Burlington, NC, May 22, 2013.

**Waller AE,** Ising AI, Falls D. North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT). UNC Injury Prevention Research Center Seminar, Chapel Hill, NC, February 8, 2007.

**Waller AE.** How will HIPAA influence research? The North Carolina Emergency Department Database (NCEDD): A case study. Lecture presented to Dr. Katherine Hartmann's Healthcare Epidemiology class, UNC School of Public Health, September, 2004.

**Waller AE,** Spicer S, Johnson K, Falls D, Eubanks T. The NCEDD Project: An introduction. Presentation to the Mecklenburg County Department of Health, April 9, 2003.

**Student Research Mentorship**

Below is a list of students I have mentored and worked with, including their degree programs, years I worked with them, and projects on which they worked, from 2003 – present.

**Current Students:**

- Danielle Mohabir, MD/PhD program, UNC-CH Department of Health Policy and Management, 2018-present. GRA working with NC DETECT on mental/behavioral health related ED visit project.
- Jonathan Fix, MSPH/PhD program, UNC-CH Department of Epidemiology, 2018-present. Working on NC DPH funded project to improve EMS-ED data linkage.
- Sophie Mayer, PhD program, UNC-CH Department of Epidemiology, 2018-present. GRA with Carolina Center for Health Informatics. Working on Prescription Drug Overdose, Violence and Alcohol-Related Injury Project.
- Kathy Peticolas, MPS in Bioinformatics and Health Informatics program, UNC-CH, 2018-present. Working on GHSP funded data documentation project.
- Katie Wolff, MD-PhD program, UNC-CH Department of Epidemiology, Duke University School of Medicine, 2018-present. GRA with Carolina Center for Health Informatics. Working on Prescription Drug Overdose, Violence and Alcohol-Related Injury Project.
- Peace Ibekwe, MD, UNC Pediatric Emergency Medicine Fellow, 2016-present. Research assistant for project examining the epidemiology of snakebite related emergency department visits in NC.

- Winston Wu, MD, UNC Pediatric Emergency Medicine Fellow, 2016-present. Research assistant for project examining the epidemiology of emergency department visits in NC by neonates with fever.
- Mike Fliss, PhD program, UNC-CH Department of Epidemiology, 2016-present. Working on Child Maltreatment Surveillance Case Definition Project with UNC Injury Prevention Research Center and NC Division of Public Health, Injury and Violence Prevention Branch.

### **Former Students:**

- Dylan Delisle, MPH program, UNC-CH Department of Health Behavior, 2018. Summer practicum preceptor. Project investigated suicide and self-harm in the NC Violent Death Reporting System and NC DETECT emergency department visit data.
- Katie Harmon, PhD program, UNC-CH Department of Epidemiology, 2011-2018. GRA with Carolina Center for Health Informatics. Projects include Governor's Highway Safety Program funded Strategic Planning for Data Linkage Project, Prescription Drug Overdose, Violence and Alcohol-Related Injury Project, Surveillance Quality Initiative and Injury Annual Report.
- Kamal Henderson, MD, UNC School of Medicine, Preventive Medicine Residency, 2017-2018. Developing Practicum project working with NC DETECT cardiovascular disease surveillance data.
- Nakia Best, PhD program, School of Nursing, 2015-2018. Working on School Health for Public Health Surveillance Project with UNC School of Nursing and NC Division of Public Health, School Health Unit.
- Mark Munn, MD, Resident, UNC-CH Department of Emergency Medicine, 2015-2017. Research assistant for project examining the epidemiology of snakebite related emergency department visits in NC.
- Jennifer Jones, UNC-CH Department of Epidemiology, 2015-2017. GRA with Carolina Center for Health Informatics. Projects include Governor's Highway Safety Program funded Strategic Planning for Data Linkage Project and Motor Vehicle Crash Injuries in Wake County Project.
- Laurel Harduar Morano, UNC-CH Department of Epidemiology, 2015-2016. GRA with Carolina Center for Health Informatics. Projects include incorporation of climate data into NC DETECT to inform climate and health reports.
- Leslie deRosset, UNC-CH Department of Maternal and Child Health, 2015. Faculty advisor for project examining the use of the emergency department by pregnant women.
- John Ussery-Intintolo, UNC undergraduate, Computer Science major, 2014-2015. Supervising unpaid (2014) and paid (2015) summer internship working with Acute Aortic Emergency project, using EMT-P to analyze chief complaint data (2014) and updating and documenting NegEx for use in NC DETECT (2015).
- Chris Lynch, Public Health Leadership Program, UNC-CH Gillings Global School of Public Health. Practicum student working on ICD-10-CM mapping conversion for syndrome case definitions, 2014-2015.
- Amy Sun, PhD Program, UNC-CH Department of Epidemiology, 2013-2015. Working on pollen and ED visits for respiratory illness project with NC Division of Public Health, Climate Change Adaptation program. Based at CCHI.
- Steve Lippmann, PhD program, UNC-CH Department of Epidemiology, 2008-2014. GRA with Carolina Center for Health Informatics. Projects included Gillings Laboratory of Innovation asthma and COPD epidemiology and systems of care, modeling and predictions of air pollution measures and respiratory related ED visits, and heat related illness treated in the ED.
- Gary Burke, MD/MPH program, UNC-CH School of Medicine, 2013. Supervised his master's paper research project; topic "Off-road motor vehicle crash injuries treated in NC emergency Departments, 2011".
- Elizabeth La, PhD, Department of Health Policy and Management, 2011-2013. Member of dissertation committee.
- Sarah Rhea, MSPH, PhD, UNC-CH Department of Epidemiology, 2008-2013. GRA with Carolina Center for Health Informatics. Projects include epidemiology of animal bites and rabies prophylaxis in NC EDs, heat related illness in NC EDs, and ED-EMS data linkage.

- Wayne Psek, PhD program, UNC-CH Department of Health Policy and Management, 2008-2013. Projects include Gilling Laboratory of Innovation systematic literature review for asthma care and interventions in the ED. Paper was submitted and is currently under revision.
- Joe Reardon, 4<sup>th</sup> year medical school student, Harvard School of Medicine, now entering Emergency Medicine Residency at Duke, 2013. Worked on SQI project, reviewing coding practices for poisoning related ED visits.
- Nadya Belenky, PhD program, Department of Epidemiology, 2011-2012. Worked on NCBP project.
- Mary T. Fangman, MSPH, PhD program, Department of Epidemiology, 2010-2012. Worked with Preparedness and Emergency Response Research Center (PERRC) Surveillance project.
- Ashley Leak, PhD, School of Nursing, Post-Doctoral Fellow, Department of Health Policy and Management, 2010-2012. Worked on deaths of cancer patients in the ED project
- Sarah Radke, PhD, Department of Epidemiology, 2008-2012. Projects included BioSense Evaluation, data quality metadata reporting, and using automated SAS programs to generate reports for NC DETECT.
- Chris Heaney, PhD, Department of Epidemiology, 2008-2012. Worked with the Gillings Laboratory of Innovation examining climate and ED visit data.
- Deepika Mahalingam, MS, Department of Computer Science, 2010-2011. Worked on project developing new triage note processor and classifier, EMT-C.
- Leah Schinasi, PhD, Department of Epidemiology, 2009-2011. Projects included NC DETECT ED visit data annual reports, policy evaluations for NC DPH, end user report testing, and development of new surveillance reports for NC DPH.
- Annah Layman Wyss, PhD program, Department of Epidemiology, 2009-2011. Worked on cancer related ED visits project.
- Anne Hakenewerth, PhD, Department of Epidemiology, 2006-2011. Projects included ED-EMS and ED hospital discharge data linkage, ED visit annual reports, trends in mental health visits to the ED, burns treated in the ED, and comparing NC ED visit data with NHAMCS ED visit data.
- Martha Skiles, PhD program, Department of Maternal and Child Health, 2009-2010. Projects included NC DETECT Annual Report and data linkage between NC DETECT and State Center for Health Statistics.
- Levi Njord, PhD program, Department of Epidemiology, 2009-2010. Worked on Gillings Laboratory of Innovation asthma epidemiology and systems of care project.
- Heidi Soeters, PhD program, Department of Epidemiology, 2010. Worked with Preparedness and Emergency Response Research Center (PERRC) Surveillance project.
- Michael Park, MPH, Department of Maternal and Child Health, PhD program, Department Health Policy and Management, 2008-2010. Projects included Preparedness and Emergency Response Research Center (PERRC) Surveillance project and end user training and evaluation.
- Cory Forbach, BS, MD, Pre-Med program, UNC Medical School, 2006-2008. Projects included developing improved syndrome classifications for ED visit data in NC DETECT and the BioSense research project.
- Aaron Ratcliffe, MS, Department of Operations Research, 2007. Worked on BioSense Evaluation data validity audit project.
- Brad Lewallen, DDS, School of Dentistry, 2006-2007. Worked on North Carolina ED use for dental complaints project.
- Aaron Kipp, PhD, Department of Epidemiology, 2005-2007. Projects included evaluation of aberration detection algorithms, implementation of EARS in NC DETECT, and integration of multiple data streams for public health surveillance.
- Lorraine Waguespack, PhD program, School of Nursing, 2005-2006. Worked with Biosense research project to improve use of chief complaint preprocessing for syndromic surveillance.
- John Crouch, BS, Department of Computer Science, 2004-2006. Worked on improving and implementing the chief complaint text processor, EMT-P, in NC DETECT.
- Carmen Beard, MSIS, School of Information and Library Science, 2002-2004. Projects included conducting Web-based survey to determine hospital chief complaint systems and formats, development of Emergency



Medical Text Processor (EMT-P) chief complaint processing software, and general support of syndromic surveillance system.

- Meichun Li, MSIS, School of Information and Library Science, 2002-2003. Projects included migration of database to SQL Server and Web portal development.
- Udit Patel, MHA, Department of Health Policy and Administration, 2001-2003. Projects included coordination of Departmental Research Symposium, presentation preparation, and validation work related to development of ED diagnosis code clusters.

### **Graduate Supervision, Committees**

- Dylan Delisle, MPH program, UNC-CH Department of Health Behavior, 2018. Practicum Preceptor.
- Nakia Best, PhD program, School of Nursing, 2015-2018. On her dissertation committee.
- Katie Harmon, PhD program, UNC-CH Department of Epidemiology, 2015-2018. On her dissertation committee.
- Justin Myers, Global Emergency Medicine Fellow, UNCH, 2014-2016. On his Fellowship research project review committee; topic is “Systematic triage in low-middle income countries”.
- Steve Lippmann, PhD program, UNC-CH Department of Epidemiology, 2014-2015. On his dissertation committee.
- Andrea Beaudry, MSN program, School of Nursing, 2015-2016. Member of research practicum oversight committee. Topic: Acute Aortic Emergencies in the Emergency Department.
- Rebecca Yau, PhD program, UNC-CH Department of Epidemiology, 2014-2016. On her dissertation committee.
- Linda Knox, MSN program, UNC School of Nursing, 2014-2015. Member of research practicum oversight committee. Topic: Cause-Specific Health Related School Absenteeism Surveillance.
- Vicki Mobley, MSN program, School of Nursing, 2014-2015. Member of research practicum oversight committee. Topic: Acute Aortic Emergencies in the Emergency Department.
- Elizabeth Fitzgerald, Pediatric Emergency Medicine Fellow, WakeMed and UNCH, 2013-2016. On her Fellowship research project review committee; topic was “Child Mortality Audit in Malawi”.
- Ashley Kinkaid, Pediatric Emergency Medicine Fellow, WakeMed and UNCH, 2013-2016. On her Fellowship research project review committee; topic was “Clinical factors associated with initial medical decision making concerning length of observation in children presenting to emergency departments with head injury”.
- Angel Schuster, Pediatric Emergency Medicine Fellow, WakeMed and UNCH, 2013-2016. On her Fellowship research project review committee; topic was “Radiation dose and risks as perceived by patient and provider”.
- Neva Howard, Pediatric Emergency Medicine Fellow, WakeMed and UNCH, 2012-2014. On her Fellowship research project review committee; topic was “Pilot Study of the use of Learning Curves for ECG Interpretation in a Pediatric Emergency Department”.
- Davis Miller, Pediatric Emergency Medicine Fellow, WakeMed and UNCH, 2012-2014. On his Fellowship research project review committee; topic was “CT utilization and the variables that influence imaging in children with minor head injuries”.
- Scott Connelly, Pediatric Emergency Medicine Fellow, WakeMed and UNCH, 2012-2014. On his Fellowship research project review committee; topic was “Pediatric emergency department sedation: development of a pre-sedation checklist”.
- Elizabeth Holdsworth La, PhD program, UNC-CH Department of Health Policy and Management, 2011-2013. On her dissertation committee; topic was “The effects of a state psychiatric hospital waitlist policy on mental health safety net providers”.
- Gary Burke, MD/MPH program, UNC-CH School of Medicine, 2013. On his master’s paper committee; topic was “Off-road motor vehicle crash injuries treated in NC emergency departments, 2011”.

### **Graduate Program Advising**

Carolina Health Informatics Program Master of Professional Science in Biomedical and Health Informatics program, advisor, 2016-present.

### **Pre-Professional Student Mentorship**

Health Professions Partnership Initiative project, UNC, School of Medicine, mentor, Summers, 1997- 2000.

## **VII. GRANTS AND CONTRACTS**

### **ACTIVE:**

The North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) (contract)

Role: Principal Investigator, approximately 35% (varies)  
Funded By: North Carolina Department of Health and Human Services  
Value: \$US 410,390 (original), \$US 275,610 (amendment 1), \$US 526,548 (amendment 2)  
Dates: 7/1/2017 – 6/30/2019

Maintain a Meaningful User Registration of Intent Web-based Portal for NC (contract)

Role: Principal Investigator, 5%  
Funded By: North Carolina Department of Health and Human Services  
Value: \$US 60,029 (original), \$US 81,900 (amendment 1)  
Dates: 7/1/2017 – 6/30/2019

Linking Crash Reports to Medical Data in North Carolina: A Strategic Implementation Plan (contract)

Role: Principal Investigator, 20% (varies)  
Funded By: North Carolina Governor's Highway Safety Program (via IPRC)  
Value: \$US 215,526 (year 1), \$US 252,860 (year 2), \$US 258,149 (year 3)  
Dates: 10/1/2016 - 9/30/2019

Prescription Drug Overdose, Violence, and Alcohol-Related Injury Surveillance Using NC DETECT (contract)

Role: Principal Investigator, 10-20% (varies)  
Funded By: CDC (via North Carolina Department of Health and Human Services and IPRC)  
Value: \$US 66,500 (year 1), \$US 100,000 (year 2 – amendment 1), \$US 150,000 (amendment 2 - ESOOS work), \$US 254,000 (year 3 – amendment 3)  
Dates: 1/1/2017 - 7/31/2019

Data Documentation for Linking Crash and Health Data in NC (contract)

Role: Principal Investigator, 10% (varies)  
Funded By: North Carolina Governor's Highway Safety Program (via IPRC)  
Value: \$US 76,402 (year 1), \$US 103,531 (year 2)  
Dates: 1/1/2017 - 9/30/2019

### **PENDING (funding approved):**

Prescription Drug Overdose, Violence, and Alcohol-Related Injury Surveillance Using NC DETECT (Amendment 4 – Crisis NOFO work)

Role: Principal Investigator  
Funded By: CDC (via North Carolina Department of Health and Human Services and IPRC)  
Value: \$US 300,000 (amendment 4)  
Dates: 9/1/2018 - 7/31/2019

**COMPLETED:**

Healthcare Acquired Infection Web Application and Database Design and Development (contract)

Role: Principal Investigator, 5%  
Funded By: CDC (via North Carolina Department of Health and Human Services)  
Value: \$US 158,090 (original), \$US 76,177 (Amendment 1)  
Dates: 5/17/2016 - 3/31/2018

The North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) (contract)

Role: Principal Investigator, approximately 35% (varies)  
Funded By: North Carolina Department of Health and Human Services  
Value: \$US 685,188  
Dates: 7/1/2016 – 6/30/2017

Maintain a Meaningful User Registration of Intent Web-based Portal for NC (contract)

Role: Principal Investigator, 5%  
Funded By: North Carolina Department of Health and Human Services  
Value: \$US 56,442  
Dates: 7/1/2016 – 6/30/2017

Developing Web Portal and Dashboards for Medication and Drug Overdose Data in NC DETECT

Role: Principal Investigator, 30%  
Funded By: CDC (via North Carolina Department of Health and Human Services and IPRC)  
Value: \$US 20,000  
Dates: 7/1/2016 - 8/31/2016

Motor Vehicle Crash Injuries in Wake County, NC: Exploring available data sources and potential data linkages (contract)

Role: Principal Investigator, 10%  
Funded By: North Carolina Governor's Highway Safety Program  
Value: \$US 271,904  
Dates: 10/1/2014 - 9/30/2016

National Collaborative for BioPreparedness (NCBP) (contract)

Role: Co-Investigator, 10-30% (varied)  
Funded by: Department of Homeland Security  
Value: \$US 30,000,000  
Dates: 6/1/2010 – 8/31/2016

Surveillance Quality Improvement (SQI) Project (contract)

Role: Principal Investigator, 10%  
Funded By: CDC (via North Carolina Department of Health and Human Services)  
Value: \$US 87,402  
Dates: 8/1/2015 - 7/31/2016

The North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) (contract)

Role: Principal Investigator, approximately 35% (varies)  
Funded By: North Carolina Department of Health and Human Services  
Value: \$US 826,810 (including 2 amendments)  
Dates: 7/1/2015 – 6/30/2016

Maintain a Meaningful User Registration of Intent Web-based Portal for NC (contract)

Role: Principal Investigator, 5%  
Funded By: North Carolina Department of Health and Human Services  
Value: \$US 69,290 (including 1 amendment)  
Dates: 7/1/2015 - 5/31/2016

Wake County Child Maltreatment Prevention Network Planning (grant)

Role: Co-Investigator, 20%  
Funded By: John Rex Endowment  
Value: \$US 131,421  
Dates: 1/1/2015 - 3/31/2016

Surveillance Quality Improvement (SQI) Project) (contract)

Role: Principal Investigator, 10%  
Funded By: CDC (via North Carolina Department of Health and Human Services)  
Value: \$US 87,402  
Dates: 8/1/2014 - 7/31/2015

The North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) (contract)

Role: Principal Investigator, approximately 35% (varies)  
Funded By: North Carolina Department of Health and Human Services  
Value: \$US 649,239  
Dates: 7/1/2014 – 6/30/2015

Develop and Maintain a Meaningful User Registration of Intent Web-based Portal for NC (contract)

Role: Principal Investigator, 4%  
Funded By: North Carolina Department of Health and Human Services  
Value: \$US 70,000  
Dates: 9/1/2014 - 6/30/2015

Climate Change Impacts of Air Pollution on Morbidity in Vulnerable Populations across the Life Stages in 2050: Translation to Local Health Preparedness (grant)

Role: Co-Investigator, no salary support  
Funded By: Carolinas Integrated Sciences and Assessments, University of South Carolina  
Value: \$US \$19,983  
Dates: 1/1/2013 – 8/31/2014

Surveillance Quality Improvement (SQI) Project) (contract)

Role: Principal Investigator, 15%  
Funded By: CDC (via North Carolina Department of Health and Human Services)  
Value: \$US 133,402  
Dates: 8/1/2013 - 7/31/2014

The North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) (contract)

Role: Principal Investigator, approximately 45% (varies)  
Funded By: North Carolina Department of Health and Human Services  
Value: \$US 649,239  
Dates: 7/1/2013 – 6/30/2014

Develop and Implement a Meaningful User Registration of Intent Web-based Portal for NC (contract)

Role: Principal Investigator, 10%  
Funded By: North Carolina Department of Health and Human Services  
Value: \$US 94,799  
Dates: 12/4/2013 - 6/30/2014

Wake County Childhood Injury Prevention Assessment Project (contract)

Role: Co-Investigator, 25%  
Funded By: John Rex Endowment  
Value: \$US \$116,072  
Dates: 8/1/2013 – 5/31/2014

Pediatric Field Triage for EMS (grant)

Role: Co-Investigator, 5%  
Funded By: HRSA, Maternal and Child Health Bureau (via EMSC))  
Value: \$US 300,000  
Dates: 9/1/2010 - 8/31/2013

Surveillance Quality Improvement (SQI) Project (contract)

Role: Principal Investigator, 10%  
Funded By: CDC (via North Carolina Department of Health and Human Services)  
Value: \$US 87,368  
Dates: 8/1/2012 - 7/31/2013

The North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) (contract)

Role: Principal Investigator, approximately 45% (varies)  
Funded By: North Carolina Department of Health and Human Services  
Value: \$US 605,398  
Dates: 8/10/2012 – 6/30/2013

Amendment #1: 12/1/2012 – 6/30/2013, BioSense 2.0 Data Provisioning and Disaster Recovery, \$US 184,471

Adapting Natural Language Processing Tools for Biosurveillance (grant)

Role: Co-Investigator, 10%  
Funded by: National Library of Medicine  
Value: \$US 447,569  
Dates: 9/28/2009 – 1/31/2013

EMS Field Triage (contract)

Role: Co-Investigator, 5%  
Funded By: National Highway Traffic Safety Administration  
Dates: 9/30/2010 – 9/29/2012

Preparedness and Emergency Response Research Center (PERRC) (grant)

Role: Principal Investigator Project 2 – Surveillance Systems Research, 20-25%  
Funded By: Centers for Disease Prevention and Control  
Value: \$US 1,242,312 (Years 1-4 of Project 2 only)  
Dates: 9/30/2008 – 9/29/2012

Gillings Innovation Laboratory (grant)

Role: Co-Investigator, 15% (first 2 years only)  
Funded By: Gillings Foundation through UNC-CH School of Public Health  
Value: \$US 564,592

Dates: 8/15/2008- 8/14/2012

The North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) (contract)

Role: Principal Investigator, 40%  
Funded By: North Carolina Department of Health and Human Services  
Value: \$US 707,000  
Dates: 8/10/2011 - 8/09/2012

Surveillance Quality Improvement (SQI) Project) (contract)

Role: Co-Investigator, 5%  
Funded By: CDC (via North Carolina Department of Health and Human Services)  
Value: \$US 86,204  
Dates: 2/1/2011 - 7/31/2012

The North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) (contract)

Role: Principal Investigator, 50%  
Funded By: North Carolina Department of Health and Human Services  
Value: \$US 895,000  
Dates: 8/10/2010 - 8/09/2011

The North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) (contract)

Role: Principal Investigator, 50%  
Funded By: North Carolina Department of Health and Human Services  
Value: \$US 625,000  
Dates: 8/10/2009 - 4/09/2010

Amendment #1: Date Extension 4/10/2010 – 8/09/2010 – \$270,000

BioSense Evaluation (grant)

Role: Principal Investigator, 10%  
Funded By: CDC (UNC sub-contract to RTI)  
Value: \$367,067  
Dates: 10/1/2006 – 9/30/2009

Amendment #1: Date Extension 10/01/2009 – 5/31/2010 - \$48,421

Emergency Department Utilization by Oncology Patients (grant)

Role: Co-Investigator, no salary support  
Funded By: NC TraCS Institute  
Value: \$US 2,000  
Dates: 6/1/2009 – 5/31/2010

The North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) (contract)

Role: Principal Investigator, 50%  
Funded By: North Carolina Department of Health and Human Services  
Value: \$US 685,000  
Dates: 8/10/2008 - 4/09/2009

Amendment #1: Date Extension 4/10/2009 – 8/09/2009 – \$299,624

BioSense Initiative to Improve Early Event Detection (grant)

Role: Co-Investigator, 10%  
Funded By: CDC (UNC sub-contract to RTI)  
Value: \$US 355,845

Dates: 10/1/2005 – 6/30/2009

Evaluation of the Emergency Severity Index for pediatric triage (grant)

Role: Principal Investigator, 10%  
Funded By: HRSA  
Value: \$US 600,000  
Dates: 3/1/2005 – 2/28/2009

BioSense Data Provisioning (contract)

Role: Principal Investigator, 10%  
Funded By: North Carolina Department of Health and Human Services  
Value: \$US 394,207  
Dates: 9/1/2007- 5/1/2008

Amendment #1: Date Extension 5/01/2008 – 8/09/2008 - \$90,000

The North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) (contract)

Role: Principal Investigator, 60%  
Funded By: North Carolina Department of Health and Human Services  
Value: \$US 761,436  
Dates: 8/31/2007 - 8/09/2008

The North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) (contract)

Role: Principal Investigator, 65%  
Funded By: North Carolina Department of Health and Human Services  
Value: \$US 835,233  
Dates: 8/31/2006 - 8/30/2007

Chief Complaint Symposium (grant)

Role: Co-Investigator, 10% in kind  
Funded By: National Library of Medicine  
Value: \$US 17,591  
Dates: 11/1/2005 – 12/31/2006

Adverse drug effects and overdoses treated in the emergency department (part of UNC-CH Center for Education and Research in Therapeutics) (grant)

Role: Principal Investigator, 20%, then reduced to 5%  
Funded By: Agency for Healthcare Research and Quality/Federal Drug Administration  
Value: \$US 94,054  
Dates: 10/1/2002 – 9/30/2006

The North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) (contract)

Role: Principal Investigator, 65%  
Funded By: North Carolina Department of Health and Human Services  
Value: \$US 680,000  
Dates: 8/31/2005 - 8/30/2006

Amendment #1: Java migration - \$75,589

Amendment #2: Electronic Laboratory Reporting Coordination - \$249,736

The North Carolina Bioterrorism and Emerging Infections Prevention System (NC BEIPS) and the North Carolina Emergency Department Database (NCEDD) (contract)

Role: Principal Investigator, 75%

Funded By: North Carolina Department of Health and Human Services  
Value: \$US 800,041  
Dates: 8/31/2004 – 8/30/2005

Evaluating the effectiveness of domestic violence protective orders: women's experiences in two North Carolina counties (grant)

Role: Co-Investigator, 5%  
Funded By: Centers for Disease Control and Prevention  
Value: \$US 274,044  
Dates: 10/1/2001 – 9/30/2004

Rapid expansion of the North Carolina Emergency Department Database and development of a controlled vocabulary for emergency department chief complaints related to possible bioterrorism (contract)

Role: Principal Investigator, 60%  
Funded By: North Carolina Department of Health and Human Services  
Value: \$US 1,250,627  
Dates: 8/31/2002 – 8/30/2004

Electronic public health reporting by emergency departments (contract)

Role: Principal Investigator, 50%  
Funded By: Centers for Disease Control and Prevention  
Value: \$US 424,996  
Dates: 10/1/1999 – 9/30/2002

State of home safety in America (grant)

Role: Co-Investigator, 5%  
Funded By: Lowes Home Safety Council  
Value: \$US 98,560  
Dates: 5/1/2001 – 3/31/2002

Effective practices for healthcare response to domestic violence in North Carolina (grant)

Role: Co-Investigator  
Funded By: Governors Crime Commission of North Carolina  
Value: \$US 112,655

Evaluation of law enforcement domestic violence units in North Carolina (grant)

Role: Principal Investigator, 20%  
Funded By: Governors Crime Commission of North Carolina  
Value: \$US 140,000  
Dates: 10/1/1997-2/28/2000

**Completed Prior to 2000:**

Eating disorders among female athletes: prevalence and resources (grant)

Role: Principal Investigator, no salary support  
Funded By: Center for Health Promotion and Disease Prevention  
Value: \$US 5,000

Comparison of two triage acuity systems (grant)

Role: Co-Investigator, no salary support  
Funded By: Emergency Nurses Association  
Value: \$US 5,000



Identification and referral of impaired drivers through emergency department protocols (grant)

Role: Co-Investigator  
Funded By: National Highway Traffic Safety Administration  
Value: \$US 570,000

The cost of sports injury (grant)

Role: Co-Investigator, no salary support  
Funded By: Injury Prevention Research Center, University of North Carolina  
Value: \$US 9,751

National Jockey Injury Prevention Program (grant)

Role: Principal Investigator, no salary support  
Funded By: Injury Prevention Research Center, University of North Carolina  
Value: \$US 10,000

Augmenting injury surveillance: Implementation and evaluation of an innovative approach utilizing prompts in emergency department physician forms (grant)

Role: Principal Investigator, no salary support  
Funded By: University Research Council, University of North Carolina  
Value: \$US 3,000

Implementation and evaluation of an emergency department screening and referral protocol for domestic violence (grant)

Role: Principal Investigator, no salary support  
Funded By: Injury Prevention Research Center, University of North Carolina  
Value: \$US 9,640

Pilot for “Clinical management and outcome of geriatric trauma patients: A retrospective review” (grant)

Role: Co-Investigator, no salary support  
Funded By: Injury Prevention Research Center, University of North Carolina  
Value: \$US 2,000

Pilot for “Can pre-season medical history predict sports injury? A cohort study” (grant)

Role: Principal Investigator, no salary support  
Funded By: University Research Council, University of North Carolina  
Value: \$US 1,895

A model of sports related injury: a prospective cohort study of risk factors and preventive mechanisms for rugby injury (grant)

Role: Project Coordinator/Co-Investigator  
Funded By: Accident Rehabilitation and Compensation Insurance Corporation of New Zealand  
Value: \$NZ 361,257

Identifying barriers to lowering home hot tap water temperatures (grant)

Role: Principal Investigator  
Funded By: Health Development and Research Committee of the Medical Research Council of New Zealand  
Value: \$NZ 10,000

Preparation of an annotated bibliography on childhood thermal injury with emphasis on hot water burns (contract)

Role: Principal Investigator  
Funded By: Accident Compensation Corporation (New Zealand)  
Value: \$NZ 2,500

Evaluation of a pilot project to reduce home hot tap water temperatures in Dunedin homes with young children (grant)

Role: Principal Investigator  
Funded By: Accident Compensation Corporation (New Zealand)  
Value: \$NZ 15,075

## **VIII. PROFESSIONAL SERVICE**

### **National and International:**

National Health Security Preparedness Index – Model Design Workgroup (member), Communications Technical Review Team (member), convened by the Association of State and Territorial Health Officials (ASTHO), 2012-2015.

### **Professional Society Leadership and Membership:**

International Society for Disease Surveillance, Executive Director Search Committee, 2016. Provided input to job description and posting, review and interview applicants, provide input to decision process and position offer.

International Society for Disease Surveillance, Awards Committee, member, 2015-present. Review scientific papers and abstracts and prepare slate of nominations for review and voting by entire membership. Identify or solicit nominations for ISDS Awards.

International Society for Disease Surveillance, Advisory Group, member, 2013-present. Provide guidance and input on matters pertaining to ISDS, including the ISDS Strategic Plan and other Society activities.

Overdose Surveillance Committee of the International Society for Disease Surveillance (ISDS), member, 2017-present.

Syndrome Definition Committee of the International Society for Disease Surveillance (ISDS), member, 2016-present.

Surveillance Community of Practice of the International Society for Disease Surveillance (ISDS), member, 2016-present.

Public Health Practice Committee of the International Society for Disease Surveillance (ISDS), member, 2008-present.

Organizing Committee for the International Society for Disease Surveillance (ISDS) 2008 Annual Conference, 2007 – 2009.

International Society for Disease Surveillance, Annual Conference Scientific Program Committee, 2006 – present. Public Health Surveillance Track Co-Chair, 2012. Review submitted abstracts for conference program, 2006-present.

Research Committee of the International Society for Disease Surveillance (ISDS), member, 2005-present.

Injury Control and Emergency Health Services Section of the American Public Health Association, Program Committee Co-Chair, October 2001 – November 2003. Develop and design section program for annual conference. Program Committee member, November 1994 - present. Review submitted abstracts for the section.

American Public Health Association, Film Festival Reviewer, 2018-present. Review films for presentation at annual conference.

### **Journal Editorial and Review Work:**

Injury Epidemiology Journal, Editorial Board Member, June 2013 – present.

Journal of the American Medical Association Reviewer, September 1995 - present. Provide occasional peer review of manuscripts submitted to the Journal of the American Medical Association (JAMA).

Annals of Emergency Medicine Consultant, September, 1994 - present. Provide occasional peer review of manuscripts submitted to Annals of Emergency Medicine, the Journal of the American College of Emergency Physicians.

Advances in Disease Surveillance Editorial Team, 2006 – 2010. Provide peer review of manuscripts submitted to this new journal. Participate in decision making to guide design and development of this online publication.

Occasional Reviewer for PLOS ONE, Public Health Reports, American Journal of Medicine, American Journal of Preventive Medicine, Archives of Pediatric and Adolescent Medicine, American Journal of Public Health, BMC Emergency Medicine, Journal of the American Medical Informatics Association, Journal of Biomedical and Health Informatics, Australian Journal of Public Health, Journal of Clinical Psychology, Epidemiology, Injury Prevention, North Carolina Medical Journal, Medicine and Science in Sports and Exercise, British Journal of Sports Medicine, Injury Control and Safety Promotion, Journal of Science and Medicine in Sport (Australia), Journal of Primary Prevention, Journal of the National Comprehensive Cancer Network.

### **Grant Proposal Reviews:**

Gillings Innovation Laboratory proposal review for UNC Gillings School of Global Public Health, 2015-present. Provide occasional peer review of grant proposals submitted for GIL funding.

National Center for Injury Prevention and Control, Centers for Disease Control and Prevention, Injury Research Grant Review Committee, 1998-present. Provide occasional peer review of grant proposals submitted to the NCIPC for funding.

Health Research Council of New Zealand Reviewer, 1996 - present. Provide occasional peer review of grant proposals submitted for funding.

### **State and Local:**

#### **Workgroup and Board Leadership:**

North Carolina Institute of Medicine All Payer Claims Database Task Force Steering Committee, 2016-2017.

North Carolina Climate Change and Public Health Workgroup (Coordinator), 2011-present

North Carolina Violent Death Reporting System, Advisory Board (formerly Board Leadership and Evaluation Team), member, 2003-present.

North Carolina Violent Death Reporting System, Technical Advisory Board, Chair, 2003-2010.

Orange County Domestic Violence Task Force, member, 1997 - 2000. Chair of Medical Subcommittee. Provided guidance and liaison for emergency medicine and the broader service community for dealing with domestic violence issues.

North Carolina High School Athletic Injury Study Advisory Board, member, 1996 - 1999. Provided guidance and advice to statewide injury surveillance project.

**Workgroup and Board Membership:**

North Carolina Traffic Records Coordinating Committee (member representing UNC's Department of Emergency Medicine, Carolina Center for Health Informatics, and Injury Prevention Research Center), 2016-present.

Pediatric Emergency Medicine Collaborative Research/Scholarly Faculty Meeting (member representing UNC's Department of Emergency Medicine, Carolina Center for Health Informatics, and Injury Prevention Research Center), 2014-present

North Carolina Climate Change and Health Advisory Group (member), 2013-present.

Shared Data Workgroup of the Research Triangle Environmental Health Collaborative, member, 2011-2016.

NC Preparedness and Emergency Response Research Center Synergy and Translation Committee, member, 2008-2012.

North Carolina Child Maltreatment Surveillance Workgroup, member, 2006-2010.

North Carolina Collaborative Acute Stroke Registry Council, member, 2004-2010.

North Carolina Subcommittee for Focus Area B, Surveillance and Epidemiology Capacity, member, 2003-2010. Represented role of emergency department data for state public health surveillance efforts.

North Carolina Task Force to Prevent Deaths from Unintentional Drug Overdoses, 2002-2004. Member of surveillance subcommittee. Represented role of emergency medicine and public health surveillance in preventing these deaths.

Governor's Domestic Violence Commission, Sub-committee on Pro-Arrest and Law Enforcement Response, member, 2000 - 2002. Appointed commission and committee to explore current issues and provide policy advice.

Orange Country Safe Kids Coalition, member, 1996 - 1999. Represented Department of Emergency Medicine.

**University of North Carolina at Chapel Hill:**

**Committee Leadership:**

University of North Carolina, Department of Emergency Medicine, Research Committee, member, 2008-2017, Chair, 2012-2016. Organize and coordinate monthly research meetings for Department faculty to present and discuss their research projects.

Annual Research Forum for the Department of Emergency Medicine, University of North Carolina, Planning Committee member, 1996 - 2003, Chair, 1997 - 2003. Responsible for development of Forum, solicitation and review of abstracts, program design, and overall organization and coordination of event.

University of North Carolina Hospitals Beacon Program Advisor, March 1996 - 2000. Provide liaison between Department of Emergency Medicine and interdisciplinary program to address the needs of victims of domestic violence.

**Committee Membership:**

University of North Carolina, Department of Emergency Medicine, Chair's Advisory Council, Member, 2018-present.

University of North Carolina, Department of Emergency Medicine, Research Committee, Member, 2016-present.

University of North Carolina, Department of Emergency Medicine, Faculty Advisory/Development Committee, Member, 2013-present.

University of North Carolina, Department of Emergency Medicine, Pediatric Emergency Medicine Fellows Scholarly Oversight Committee, member, 2010-present. Participate in monthly conferences to discuss and advise fellows' research projects.

University of North Carolina Highway Safety Research Center and Director 5 year Review Committee, Member, 2016.

University of North Carolina, Department of Emergency Medicine, Promotion and Tenure Committee. Member, 2004-2009.

University of North Carolina Housing Advisory Board, member, 1996 - 2002. Provide input and recommendations to the solution of housing problems and policy issues at UNC-Chapel Hill.

University of North Carolina Hospitals Child Restraint CQI Committee, member, September 1996 - 2000.

**Current Professional Affiliations:**

International Society for Disease Surveillance

Society for Academic Emergency Medicine

American Public Health Association

North Carolina Public Health Association

Association for the Advancement of Automotive Medicine