

Curriculum Vitae

David Barrie Richardson

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Education

University of North Carolina at Chapel Hill, School of Public Health, Department of Epidemiology, PhD., 1997.

Dissertation: "Time-Related Factors in Radiation-Cancer Associations Among Workers at Oak Ridge National Laboratory." A study of the relationship between external exposure to ionizing radiation and cancer mortality among workers at a nuclear facility.

University of North Carolina at Chapel Hill, School of Public Health, Department of Epidemiology, M.S.P.H., 1994.

Thesis: "Respiratory Effects of Chronic Hydrogen Sulfide Exposure." A study of lung function among workers occupationally exposed to hydrogen sulfide.

Duke University, B.A., 1991. Honors Society.

Professional Experience

Director, Program in Occupational Epidemiology, North Carolina Occupational Safety and Health Education and Research Center (2007-present).

Associate Professor, Department of Epidemiology, School of Public Health, University of North Carolina at Chapel Hill. 1/1/2009-current.

Honorary Professor, Division of Environmental Epidemiology, Utrecht University, The Netherlands. 1/1/2015-current.

Research Scientist and Fellow, Institute for Radiological Protection and Nuclear Safety, Fontenay-aux-Roses, France. 2016; 2015; 2012.

Faculty, International Summer School of Epidemiology, University of Ulm, Germany. 2013; 2006.

Senior Visiting Scientist, International Agency for Research on Cancer, Lyon, France, 2009-2010.

Visiting Research Fellow, Radiation Effects Research Foundation, Hiroshima, Japan, 2008.

Research Fellow, Alfried Krupp Kolleg Greifswald Foundation and Alfried Krupp von Bohlen und Halbach Foundation, Greifswald, Germany, 2006.

Assistant Professor, Department of Epidemiology, School of Public Health, University of North Carolina at Chapel Hill. 9/24/2004-12/31/2008.

Research Assistant Professor, Department of Epidemiology, School of Public Health, University of North Carolina at Chapel Hill. 7/1/2001-9/23/2004.

Post-Doctoral Research Fellow, International Agency for Research on Cancer, World Health Organization, Lyon, France. International Collaborative Study of Cancer Risk among Radiation Workers in the Nuclear Industry. 1999 – 2000.

Post-Doctoral Researcher, Department of Epidemiology, University of North Carolina. Ionizing Radiation and Mortality among Hanford Workers. 1997 - 1998.

Professional Service

Member, US Presidential Advisory Board on Radiation and Worker Health, US Presidential Appointment, 2009-present; and, *Chair*, Working Group on Scientific Issues, Presidential Advisory Board on Radiation and Worker Health, White House, 2011-present.

Chair, Radiation Advisory Committee, Standing Committee, US Environmental Protection Agency (EPA), Washington, DC, 2012-present.

Member, Science Advisory Board, US Environmental Protection Agency (EPA), Washington, DC, 2015-2017.

Member, Institute of Medicine, Committee to Review the Health Effects in Vietnam Veterans of Exposure to Herbicides – Tenth Biennial Update, National Academies of Science, Washington DC, 2014-2016.

Member, Institute of Medicine, Committee on Research Directions in Human Biological Effects of Low Level Ionizing Radiation, National Academies of Science, Washington DC, 2013-2014.

Member, Institute of Medicine, Committee on Review of the Department of Labor's Site Exposure Matrix Database, National Academies of Science, Washington DC, 2011-2013.

Reviewer, Institute of Medicine, Committee on Blue Water Navy Vietnam Veterans and Agent Orange Exposure, National Academies of Science, Washington DC, 2011.

Member, Advisory Group to Recommend on Quantitative Risk Characterization for the IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, International Agency for Research on Cancer, Lyon, France 2013

Member, Subgroup on Epidemiology, IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Volume 102: Non-Ionizing Radiation, Part 2: Radiofrequency Electromagnetic Fields,

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International Agency for Research on Cancer, Lyon, France 2010-2011.

Chair, Subgroup on Epidemiology, IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Volume 100D: Radiation, International Agency for Research on Cancer, Lyon, France 2009.

Member, Expert Panel on Trichloroethylene, National Toxicology Program, Report on Carcinogens, National Institute for Environmental Health Sciences, 2014.

Member, Expert Panel on Formaldehyde, National Toxicology Program, Report on Carcinogens, National Institute for Environmental Health Sciences, 2009.

Member, Scientific Committee on Biological Effectiveness of Photons as a Function of Energy (SC 1-20), U.S. National Council on Radiation Protection and Measurements (US NCRP), Washington DC, 2010-2016.

Member, National Advisory Panel, Agricultural Health Study, Washington, DC, 2012-present.

Member, Scientific Advisory Committee, EPICOH2016, Barcelona, Spain, 2015-2017.

Member, Scientific Advisory Committee, Centre for Research in Environmental Epidemiology (CREAL), Barcelona, Spain, 2012-present.

Member, Occupational Health Surveillance Advisory Group, North Carolina Occupational Health and Safety Surveillance Program, Occupational and Environmental Epidemiology Branch, NC Division of Public Health, 2016-present.

Member, Board of Directors, Citizens' Monitoring and Technical Assessment Fund (a US Department of Energy-established fund to provide grants to non-governmental and tribal organizations working on issues related to the nuclear weapons complex), 2003-2007.

Awards

Teaching Innovations Award, School of Public Health, University of North Carolina at Chapel Hill, 2012.

Best Paper in Epidemiology in Occupational Health, Lead author of "Risk of cancer from exposure to ionizing radiation: a retrospective cohort study of workers in France, the United Kingdom, and the United States (INWORKS)" which was awarded at EPICOH, 2016.

Article of the Year, Lead author of "Assessment and indirect adjustment for confounding by smoking in cohort studies using relative hazards model" with Eric Tchetgen Tchetgen, Steve Cole and Dominique Laurier, which received the Society of Epidemiologic Research and American Journal of Epidemiology Article of the Year, 2014.

Best paper in Biometrics, Coauthor of "Detecting disease outbreaks using local spatiotemporal methods" with Yingqi Zhao, Donglin Zeng, Amy Herring, Amy Ising, Anna Waller, and Michael

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Kosorok, which was named the Best paper in Biometrics, 2011.

Research Participation Program, U.S. Environmental Protection Agency, Office of Research and Development. Washington, D.C. 2013-2015.

Environmental Biostatistics Training Program, National Institute for Environmental Health Sciences, Traineeship in Environmental Epidemiology, 1993 - 1997.

Public Health Service Traineeship, Department of Health and Human Services, 1992 - 1993.

Merit Assistant Award, The Graduate School of the University of North Carolina, Merit Assistantship Program and the Department of Epidemiology, 1992 - 1993.

Editorial Positions

Associate Editor, American Journal of Epidemiology. 2009-current.

Associate Editor, Occupational & Environmental Medicine. 2009-current.

Associate Editor, Environmental Health Perspectives. 2010-current.

Professional Memberships

Member, American Public Health Association, 1994-present.

Member, Society for Epidemiologic Research, 2004-present.

Member, International Society for Environmental Epidemiology, 2004-present.

Member, International Commission on Occupational Health, 2006-present.

Member, Scientific Committee on Epidemiology in Occupational Health (EPICOH), International Commission on Occupational Health, 2006-present.

Member, Committee on Capacity Building in Developing Countries, International Society for Environmental Epidemiology, 2004-2008.

Book Chapters

Richardson DB. "Occupational Epidemiology." In, Rothman K, Greenland S, Lash T, editors Modern Epidemiology, Fourth edition. Lippincot, (forthcoming).

Richardson D. "Occupational Health Risks in Nuclear Power." In, Cleveland C., editor Encyclopedia of Energy, Volume 4. Academic Press/Elsevier Science, San Diego CA (2004): 489-496.

Wing S, Richardson D. "Material Living Conditions and Health in the United States, Canada and Western Europe." In, Naomar Almeida Filho, editor, Inequalities in Health Based on Living Conditions. Research in Public Health: Technical Papers, Series Number 19, Pan American Health Organization, Washington DC (2000).

Peer-Reviewed Publications

1. Rinsky JL, Richardson DB, Wing S, Beard JD, Alavanja M, Beane Freeman LE, Chen H, Henneberger P, Kamel F, Sandler DP, Hoppin JA. Assessing the potential for bias from non-response to a study follow-up interview: An example from the Agricultural Health Study. *American Journal of Epidemiology* (2016) in press.
2. Grabich SC, Horney JA, Robinson WR, Konrad CE, Engel SE, Richardson DB. Hurricane Charley Exposure and Hazard of Preterm Delivery, Florida 2004. *Maternal and Child Health Journal* (2016). DOI: 10.1007/s10995-016-2069-y.
3. Richardson DB, Keil AP, Cole SR, MacLehose RF. Observed and expected mortality in cohort studies. *American Journal of Epidemiology* (2016) in press.
4. Keil AP, Richardson DB. Reassessing the link between airborne arsenic exposure among Anaconda copper smelter workers and multiple causes of death using the parametric g-formula. *Environmental Health Perspectives* (2016) doi: 10.1289/EHP438.
5. Hamra G, Dement JD, Loomis DL, Richardson DB. Lung cancer risk associated with regulated and unregulated chrysotile asbestos fibers. *Epidemiology* (2017) PMID:.
6. Guseva Canu I, Burstyn I, Richardson DB. The order of things: Control bands for risk managers and scientists. *Epidemiology* (2016) 27: PMID: 27054652.
7. Yau R, Golightly Y, Richardson DB, Waller A, Runfola C, Marshall S. Potential predictors of injuries among pre-professional ballet and contemporary dancers. *Journal of Dance Medicine and Science* (2016 in press).
8. Mordukhovich I, Herring AH, Hatch M, Stellman SD, Teitelbaum SL, Richardson DB, Engel LS, Shantakumar S, Steck SE, Neugut AI, Rossner Jr. P, Santella RM, Beyea J, Gammon MD. Polymorphisms in DNA repair genes, traffic-related polycyclic aromatic hydrocarbon exposure and breast cancer incidence. *International Journal of Cancer* (2016) 139: 310-321. PMID: 26946191.
9. Beard J, Engel L, Richardson DB, Gammon M, Baird C, Umbach D, Allen K, Stanwyck C, Keller J, Sandler D, Schmidt S, Kamel F. Military Service, Deployments, and Exposures in Relation to Amyotrophic Lateral Sclerosis Etiology. *Environment International* (2016) 91: 104-115. PMID: 26923711.
10. Sofer T, Richardson DB, Colicina E, Schwartz J, Tchetgen Tchetgen EJ. On negative outcome control of unobserved confounding as a generalization of difference-in-differences. *Statistical*

Science (2016) accepted.

11. Gaetz KA, Richardson DB, Marshall S, Hernandez ML. Exploration of the effects of classroom humidity levels on teachers' respiratory symptoms. *International Archives of Occupational and Environmental Health* (2016) 89:729-737. doi: 10.1007/s00420-016-1111-0. PMID: 26814540
12. Samson E, Zhivin S, Richardson DB, Laroche P, Serond AP, Laurier D, Laurent O. Cancer and non-cancer mortality among French uranium cycle workers: The TRACY cohort. *Occupational and Environmental Medicine* (2016) in press PMID: 27048635.
13. Grabich SC, Robinson WR, Engel SE, Konrad CE, Richardson DB, Horney JA. County-level hurricane exposure and birth rates: application of difference-in-differences analysis for confounding control. *Emerging Themes in Epidemiology* (2015) 12:19. PMID: 26702293
14. Busch EL, Keku TO, Richardson DB, Cohen SM, Eberhard DA, Avery CL, Sandler RS. Evaluating markers of epithelial-mesenchymal transition to identify patients at risk for metastatic disease. *Clinical and Experimental Metastasis* (2016) 33: 53-62. PMID: 26507436.
15. Lund JL, Richardson DB, Sturmer T. The active comparator, new user study design in pharmacoepidemiology: Historical foundations and contemporary application. *Current Epidemiology Reports* (2015) 2(4): 221-228. doi: 10.1007/s40471-015-0053-5. PMID: 26954351.
16. Richardson DB, Cardis E, Daniels RD, Gillies M, O'Hagan JA, Hamra GA, Haylock R, Laurier D, Leuraud K, Moissonnier M, Schubauer-Berigan MK, Thierry-Chef I, Kesminiene A. Risk of cancer from exposure to ionizing radiation: a retrospective cohort study of workers in France, the United Kingdom, and the United States (INWORKS). *British Medical Journal (BMJ)* (2015);351:h5359. PMID: 26487649
17. Buckley JP, Engel SM, Mendez MA, Richardson DB, Daniels JL, Calafat AM, Wolff MS, Herring AH. Prenatal phthalate exposures and childhood fat mass in a New York City cohort. *Environmental Health Perspectives* (2015). DOI: 10.1289/ehp.1509788. PMID: 26308089
18. Smith G, Vandeneeden S, Baxter R, Shan J, Van Rie A, Herring AH, Richardson DB, Emch M, Gammon M. Air pollution and pulmonary tuberculosis: a nested case-control study among members of a Northern California health plan. *Environmental Health Perspectives* (2016) 124: 761-768. PMID: 26859438.
19. Buckley JP, Engel SM, Braun JM, Whyatt RM, Daniels JL, Mendez MA, Richardson DB, Xu Y, Calafat AM, Lanphear BP, Wolff MS, Herring AH, Rundle AG. Prenatal phthalate exposures and body mass index among 4 to 7 year old children: A pooled analysis. *Epidemiology* (2016) 27: 449-458. PMID: 26745610
20. Lebov JF, Engel LS, Richardson DB, Hogan SL, Sandler DP, Hoppin JA. Pesticide exposure and end-stage renal disease among wives of pesticide applicators in the Agricultural Health Study. *Environmental Health* (2015) in press

21. Lebov JF, Engel LS, Richardson DB, Hogan SL, Hoppin JA, Sandler DP. Pesticide use and risk of end-stage renal disease among licensed pesticide applicators in the Agricultural Health Study. *Occupational and Environmental Medicine* (2015) doi:10.1136/oemed-2014-102615.
22. Richardson DB, Kinlaw AC, MacLehose RF, Cole SR. Standardized binomial models for risk or prevalence ratios and differences. *International Journal of Epidemiology* (2015) 44:1660-72. doi:10.1093/ije/dyv137. PMID: 26228585
23. Hamra GB, Richardson DB, Cardis E, Daniels RD, Gillies M, O'Hagan J, Haylock R, Laurier D, Leuraud K, Moissonnier M, Schubauer-Berigan MK, Thierry-Chef I, Kesminiene A. Cohort Profile: The international nuclear workers study (INWORKS). *International Journal of Epidemiology* (2015) doi:10.1093/ije/dyv122. PMID: 26150557
24. Mordukhovich I, Beyea J, Herring AH, Hatch M, Stellman SD, Teitelbaum SL, Richardson DB, Millikan RC, Engel LS, Shantakumar S, Steck SE, Neugut AI, Rossner Jr. P, Santella RM, Gammon MD. Vehicular Traffic-Related Polycyclic Aromatic Hydrocarbon Exposure and Breast Cancer Incidence: The Long Island Breast Cancer Study Project (LIBCSP). *Environmental Health Perspectives* (2016) 124: 30-8. PMID: 26008800
25. Leuraud K, Richardson DB, Cardis E, Daniels RD, Gillies M, O'Hagan J, Hamra GB, Haylock R, Laurier D, Moissonnier M, Schubauer-Berigan MK, Thierry-Chef I, Kesminiene A. Ionizing Radiation and Leukaemia and Lymphoma: Findings from an international cohort study of radiation-monitored workers (INWORKS). *Lancet Haematology* (2015) 2: e276–281 doi:10.1016/S2352-3026(15)00094-0. PMID: 26436129.
26. Richardson DB, Keil AP, Tchetgen-Tchetgen E, Cooper GS. Negative Control Outcomes and the Analysis of Standardized Mortality Ratios. *Epidemiology* (2015) 26(5):727-32. PMID: 26172862
27. Thierry-Chef I, Richardson DB, Daniels RD, Gillies M, Hamra GB, Haylock R, Kesminiene A, Laurier D, Leuraud K, Moissonnier M, O'Hagan J, Schubauer-Berigan MK, Cardis E. Dose estimation for a study of nuclear workers in France, the United Kingdom and the United States of America: methods for the International Nuclear Workers Study (INWORKS). *Radiat Res* 2015; 183(6):632-42. doi:10.16667/RR14006.1. PMID: 26010707
28. Schubauer-Berigan MK, Daniels RD, Bertke SJ, Tseng CY, Richardson DB. Cancer mortality through 2005 among a pooled cohort of U.S. nuclear workers exposed to external ionizing radiation. *Radiat Res* 2015; 183(6):620-31. PMID: 26010709
29. Richardson DB, Hamra GB, MacLehose RF, Cole SR, Chu H. Hierarchical regression for analyses of multiple outcomes. *American Journal of Epidemiology* (2015) 182(5):459-67. PMID: 26232395
30. Smith G, Vandeneeden S, Baxter R, Shan J, Van Rie A, Herring AH, Richardson DB, Emch M, Gammon M. Cigarette smoking and pulmonary tuberculosis in northern California. *Journal of Epidemiology & Community Health* (2015) 69:568-73 doi:10.1136/jech-2014-204292. PMID: 25605864.

31. Pearce N, Blair A, Vineis P, Ahrens W, Andersen A, Anto JM, Armstrong BK, Baccarelli A, Beland FA, Berrington A, Bertazzi PA, Birnbaum L, Brownson R, Bucher J, Cantor K, Cardis E, Cherrie JW, Christiani D, Cocco P, Coggon D, Comba P, Demers PA, Dement J, Douwes J, Eisen E, Engel L, Fenske R, Fleming L, Fletcher T, Fontham E, Forastiere F, Frentzel-Beyme R, Fritsche L, Gerin M, Goldberg M, Grandjean P, Grimsrud TK, Gustavsson P, Haines A, Hartge P, Hansen J, Hauptmann M, Heederik D, Hemminki K, Hemon D, Hertz-Picciotto I, Hoppin JA, Huff J, Jarvholm B, Kang D, Karagas M, Kjaerheim K, Kjuus H, Kogevinas M, Kriebel D, Kristensen P, Kromhout H, Laden F, Lebailly P, Lemasters G, Lubin J, Lynch C, Lynge E, 't Mannetje A, McMichael T, McLaughlin JR, Marrett M, Martuzzi M, Merchant J, Merler E, Merletti F, Miller M, Mirer F, Monson R, Nordby K-C, Olshan A, Parent M-E, Perera F, Perry MJ, Pesatori AC, Pirastu R, Porta M, Pukkala E, Rice C, Richardson D, Ritter L, Ritz B, Ronckers CM, Rushton L, Rusiecki J, Rusyn I, Samet J, Sandler DP, de Sanjose S, Schernhammer E, Seniori Costantini A, Seixas N, Shy C, Siemiatycki J, Silvermann D, Simonato L, Smith AH, Smith M, Spinelli JJ, Spitz MR, Stallones L, Stayner L, Steenland K, Stenzel M, Stewart BW, Stewart PA, Symanski E, Terracini B, Tolbert P, Vainio H, Vena J, Vermeulen R, Victora C, Ward E, Weinberg CR, Weisenburger D, Wesseling C, Weiderpass E, Zahm SH. IARC Monographs: 40 years of evaluating carcinogenic hazards to humans. *Environmental Health Perspectives* (2015) 123:507-514. PMID: 25712798.

32. Angelon-Gaetz KA, Richardson DB, Lipton D, Marshall S, Yeatts K. The effects of building-related factors on classroom relative humidity among North Carolina schools participating in the "Free to Breathe, Free to Teach" study. *Indoor Air* (2015) 25:620-30 doi: 10.1111/ina.12176. PMID: 25515546.

33. Simon SL, Braby LA, Chang PY, Goodhead D, Hora S, Kocher DC, Mabuchi K, Puskin JS, Richardson D, Rosenstein M, Tucker J, Vano E. Biological effectiveness of photons and electrons as a function of energy. *Health Physics* (2015) 108(2): 143-144.

34. Keil AP, Richardson DB, Troester M. Healthy-worker survivor bias in the Colorado Plateau uranium miners cohort. *American Journal of Epidemiology* (2015) 181: 762-770. PMID: 25837305

35. Richardson DB, Laurier D, Schubauer-Berigan, M, Tchetgen-Tchetgen E, Cole, SR. Assessment and indirect adjustment for confounding by smoking in cohort studies using relative hazards models. *American Journal of Epidemiology* (2014) 180(9):933-40. PMID: 25245043.

36. Schinasi L, Wing S, Augustino KL, Ramsey KM, Nobles DL, Richardson DB, MacDonald P, Stewart J, Price LB, Maliha A. A case control study of environmental and occupational exposures associated with methicillin resistant *Staphylococcus aureus* nasal carriage in patients admitted to a rural tertiary care hospital in a high density swine region. *Environmental Health* (2014) 13(1):54. doi: 10.1186/1476-069X-13-54.

37. Edwards J, McGrath L, Buckley JP, Schubauer-Berigan MK, Cole SR, Richardson DB. Occupational radon exposure and lung cancer mortality: Estimating intervention effects using the parametric g-formula. *Epidemiology* (2014) 25(6):829-834. doi: 10.1097/EDE.0000000000000164. PMID: 25192403.

38. Keil AP, Edwards JK, Richardson DB, Naimi AI, Cole SR. The parametric G-formula for time-to-event data: Intuition and a worked example. *Epidemiology* (2014) 5(6):889-97 doi: 10.1097/EDE.0000000000000160. PMID: 25140837.
39. Stingone JA, Luben TJ, Daniels JL, Fuentes M, Richardson DB, Aylsworth AS, Herring AH, Anderka M, Botto L, Correa A, Gilboa SM, Langlois PH, Mosley B, Shaw GM, Siffel C, Olshan AF, National Birth Defects Prevention Study. Maternal exposure to criteria air pollutants and congenital heart defects in offspring: Results from the National Birth Defects Prevention Study. *Environmental Health Perspectives* (2014) 122(8): 863-72. PMID: 24727555
40. Starling AP, Engel SM, Richardson DB, Baird DD, Småstuen Haug L, Stuebe AM, Klungsover K, Harmon Q, Becher G, Thomsen C, Sabaredzovic A, Eggesbø M, Hoppin JA, Travlosf GS, Wilson RE, Trogstad L, Magnus P, Longnecker MP. Perfluoroalkyl substances during pregnancy and validated preeclampsia among nulliparous women in the Norwegian Mother and Child cohort study. *American Journal of Epidemiology* (2014) 179: 824-833. PMID: 24569869.
41. Buckley J, Samet J, Richardson DB. Does air pollution confound studies of temperature? *Epidemiology* (2014) 25(2):242-5 PMID: 24487206.
42. Sacks J, Rappold A, Davis JA, Richardson DB, Waller AE, Luben TJ. Influence of urbanicity and county characteristics on the association between ozone and asthma emergency department visits in North Carolina. *Environmental Health Perspectives* (2014) 122:506-512. PMID: 24569869.
43. Hamra G, MacLehose R, Bertke S, Daniels RD, Richardson DB. Modeling complex mixtures in epidemiologic analysis: additive versus relative measures of differential effectiveness. *Occupational and Environmental Medicine* (2014) 54(12):1533-8. PMID: 24213566.
44. Starling AP, Engel SM, Whitworth KW, Richardson DB, Stuebe AM, Daniels JL, Småstuen Haug L, Eggesbø M, Becher G, Sabaredzovic A, Thomsen C, Wilson RE, Travlosf GS, Hoppin JA, Baird DD, Longnecker MP. Perfluoroalkyl substances and lipid concentrations in plasma during pregnancy among women in the Norwegian Mother and Child Cohort Study. *Environmental International* (2014) 62:104-12. PMID: 24189199.
45. Edwards J, Cole SR, Chu H, Olshan A, Richardson DB. Accounting for outcome misclassification in the effect of occupational asbestos exposure on lung cancer mortality. *American Journal of Epidemiology* (2014) 179(5):641-7 PMID: 24352593.
46. Smith G, Schoenbach V, Richardson DB, Gammon M. Particulate air pollution and susceptibility to the development of pulmonary tuberculosis disease in North Carolina: an ecological study. *International Journal of Environmental Health Research* (2014) 24(2):103-12 PMID: 24387197.
47. Schoenfisch A, Marshall S, Casteel C, Cameron B, Richardson DB, Brookhart MA. Declining rates of work-related overexertion back injuries among union drywall installers in Washington State, 1989-2008: Improved safety or shifting of care? *American Journal of Industrial Medicine* (2014) 57(2):184-94 PMID: 24038384.

48. Naimi AI, Cole SR, Hudgens MG, Richardson DB. Estimating the effect of cumulative occupational asbestos exposure on time to lung cancer mortality using structural nested failure time models to account for the healthy worker survivor bias. *Epidemiology* (2014). 25(2):246-54 PMID: 24487207.
49. Naimi AI, Cole SR, Richardson DB. Causal inference in occupational epidemiology: Accounting for the healthy worker effect using structural nested models. *American Journal of Epidemiology* (2013) 178(12):1681-6 PMID: 24077092.
50. Naimi AI, Cole SR, Hudgens MG, Brookhart MA, Richardson DB. Assessing the component associations of the healthy worker survivor bias: occupational asbestos exposure and lung cancer mortality. *Annals of Epidemiology* (2013) 23: 334-41 PMID: 23683709.
51. 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 PMID: 23643292.
52. Schinasi L, Wing S, MacDonald P, Richardson DB, Stewart J, Augustino KL, Nobles DL, Ramsey KM. Medical and household characteristics associated with methicillin resistant *Staphylococcus aureus* nasal carriage among patients admitted to a rural tertiary care hospital. *PLOS ONE* (2013) 8(8):e73595 PMID: 23991200.
53. Schoenfisch A, Lipscomb H, Marshall S, Cameron W, Richardson D, Casteel C. Work-related injuries among union drywall carpenters in Washington State, 1989-2008. *American Journal of Industrial Medicine* (2013) 56: 1137-1148.
54. Xing L, Burstyn I, Richardson DB, Gustafson P. A comparison of Bayesian hierarchical modeling with group-based exposure assessment in occupational epidemiology. *Statistics in Medicine* (2013) 32(21):3686-99 PMID: 23553785.
55. Laurent O, Ancelet S, Richardson DB, Hémon D, Ielsch G, Demoury C, Clavel J, Laurier D. Potential impacts of radon, terrestrial gamma and cosmic rays on childhood leukemia in France: a quantitative risk assessment. *Radiation and Environmental Biophysics* (2013) 52: 195-209. PMID: 23529777.
56. Metz-Flamant C, Laurent O, Samson E, Caer-Lorho S, Acker A, Hubert D, Richardson DB, Laurier D. Mortality associated with chronic external radiation exposure in the French combined cohort of nuclear workers. *Occupational and Environmental Medicine* (2013) 70: 630-638 PMID: 23716722.
57. Richardson DB, Kiel A, Wing S, Wolf S. Mortality among workers at Oak Ridge National Laboratory. *American Journal of Industrial Medicine* (2013) 56(7):725-32. PMID: 23460075.
58. Richardson DB, Cole SR, Chu H. Random effects regression models for trends in standardized mortality ratios. *Occupational and Environmental Medicine* (2013) 70: 133-139. PMID: 23155190.

59. Hamra G, MacLehose R, Wing S, Richardson DB. Integrating informative priors from experimental research with Bayesian methods: an example from radiation epidemiology. *Epidemiology* (2013) 24: 90-95. PMID: 23222512.
60. Hamra G, MacLehose R, Richardson DB. Markov-Chain Monte Carlo: An introduction for epidemiologists. *International Journal of Epidemiology* (2013) 42:627-634. PMID: 23569196.
61. Zhang J, Cole SR, Richardson DB, Chu H. A Bayesian approach to strengthen inference for case-control studies with multiple error-prone exposure assessments. *Statistics in Medicine* (2013) 32: 4426-4437 PMID: 23661263.
62. Richardson DB, Wing S, Cole SR. Missing doses in the Life Span Study of Japanese atomic bomb survivors. *American Journal of Epidemiology* (2013) 177: 562-568. PMID: 23429722.
63. Edwards J, Cole SR, Troester M, Richardson DB. Accounting for misclassified outcomes in binary regression models using multiple imputation with internal validation data. *American Journal of Epidemiology* (2013) 177 (9): 904-912. PMID: 24627573.
64. Cole SR, Richardson DB, Chu H, Naimi AI. Analysis of occupational asbestos exposure and lung cancer mortality using the G formula. *American Journal of Epidemiology* (2013) PMID: 23558355.
65. Richardson DB, Cole SR, Langholz B. Regression models for the effects of exposure rate and cumulative exposure. *Epidemiology* (2012) 23: 892-899.
66. Richardson DB. Lessons from Hiroshima and Nagasaki: The most exposed and most vulnerable. *Bulletin of the Atomic Scientist* (2012) 68: 29-35.
67. Gurka KK, Marshall SW, Runyan CW, Loomis DP, Casteel C, Richardson DB. An examination of strategies for preventing workplace homicides committed by perpetrators who have a prior relationship with the workplace or its employees. *J Occup Environ Med* (2012) 54:1533-38.
68. Buckley JP, Richardson DB. Seasonal modification of the association between temperature and adult emergency department visits for asthma: a case-crossover study. *Environmental Health* (2012) 11:55.
69. Desrosiers TA, Lawson CC, Meyer RE, Richardson DB, Daniels JL, Waters MA, van Wijngaarden E, Langlois PH, Romitti PA, Correa A, Olshan AF and the National Birth Defects Prevention Study. Maternal occupational exposure to organic solvents during early pregnancy and risks of neural tube defects and orofacial clefts. *Occupational and Environmental Medicine* (2012) 69: 493-499.
70. Loomis D, Dement JM, Elliott L, Richardson DB, Kuempel ED, Stayner LT. Increased lung cancer mortality among chrysotile asbestos textile workers is more strongly associated with exposure to long, thin fibres. *Occupational and Environmental Medicine* (2012) 69: 564-568.

71. Richardson DB, Cole SR. Model averaging in the analysis of leukemia mortality among Japanese A-bomb survivors. *Radiation and Environmental Biophysics* (2012) 51: 93-95.
72. Elliott L, Loomis D, Dement J, Hein MJ, Richardson DB, Stayner L. Lung cancer mortality in North Carolina and South Carolina asbestos textile workers. *Occupational and Environmental Medicine* (2012) 69: 385-390.
73. Richardson DB, Langholz B. Background stratified Poisson regression analysis of cohort data. *Radiation and Environmental Biophysics* (2012) 51: 15-22. PMID: PMC3288408
74. Cole SR, Chu H, Greenland S, Hamra G, Richardson DB. Bayesian posterior distributions without Markov Chains. *American Journal of Epidemiology* (2012) 175: 368-375. PMID: 22306565.
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Naimi AI, Cole SR, Richardson DB. A comparison of methods to estimate the hazard ratio under conditions of nonpositivity: The Healthy Worker Effect. Society for Epidemiologic Research, Seattle, Washington, 2010.

Heaney C, Wing S, Richardson D, Campbell R, Caldwell D, Hopkins B. Malodor, air quality, and health in a community bordering a landfill. Society for Epidemiologic Research, Seattle, Washington, 2010.

Buckley JP, Richardson DB. Climate and adult emergency department visits for asthma in North Carolina. Society for Epidemiologic Research, Seattle, Washington, 2010.

Eaton M, Fujimoto SA, Gould PL, Poole CL, Richardson DB, Marshall SW. Non-battle injuries in deployed Air Force personnel, 11 September 2001-31 October 2006. Society for Epidemiologic Research, Seattle, Washington, 2010.

Zhao Y, Kosorok M, Richardson DB, Waller A. Statistical methods for detection of outbreaks. Statistics in Epidemiology, American Statistical Association, Joint Statistical Meeting, Vancouver, B.C., Aug. 2010.

Kosorok MR, Zhao Y, Zeng D, Herring A, Richardson D. Using spatiotemporal regression methods to identify causes of disease outbreaks. Eastern North American Region of the International Biometric Society, 2010.

Zhao Y, Zeng D, Herring A, Richardson D, Kosorok MR. Detecting disease outbreaks using local spatiotemporal methods. Eastern North American Region of the International Biometric Society, 2010.

Ding K, Kosorok MR, Zeng D, Richardson D. Partly proportional single-index model for censored survival data. Eastern North American Region of the International Biometric Society, 2010.

Buckley JP, Richardson DB. Climate and pediatric emergency department visits for asthma in North Carolina. Society for Pediatric and Perinatal Epidemiology, Seattle, Washington, 2010.

Eaton M, Gould PL, Fujimoto SA, Poole CL, Richardson DB, Marshall SW. Non-battle injuries in Air Force personnel deployed in support of Operations Iraqi and Enduring Freedom. 138th Meeting of the American Public Health Association, Denver, Co, 2010.

Gaines L, Fent K, Flack S, Thomasen J, Ball L, Richardson DB, Ding K, Whittaker S, Nylander-French L. Urine 1,6-hexamethylene diamine (HDA) levels among workers exposed to 1,6-hexamethylene diisocyanate (HDI). International Council of Chemical Association, Long-Range Research Initiative Workshop. Charleston, South Carolina, 2009.

Richardson DB. "Lung cancer in chrysotile asbestos workers: Analyses based on the two-stage clonal expansion model." 21st Conference of the International Society for Environmental Epidemiology (ISEE), Dublin, Ireland, 2009.

Richardson DB, Sugiyama H, Nishi N, Sakata R, Shimizu Y, Grant EJ, Soda M, Hsu W, Suyama A, Kodama K, Kasagi F. "Ionizing radiation and leukemia mortality among Japanese atomic bomb survivors, 1950-2000." Late Health Effects of Ionizing Radiation: Bridging the Experimental and Epidemiologic Divide, Washington DC, 2009.

Symons JM, Cole S, Richardson DB, Checkoway H, Eisen E. "Past, Present, and Future Approaches to the Healthy Worker Effect." Symposium organized for the Society for Epidemiologic Research, Anaheim, California, 2009.

Kim HM, Richardson DB, Loomis D, van Tongeren M, Burstyn I. Bias in the Estimation of Exposure Effects with Individual-or Group-Based Exposure Assessment. Symposium on Dependent Data Structures, Ottawa, ON, 2008.

Richardson DB. "Temporal Variation in the Association Between Benzene and Leukemia Mortality." 20th Conference of the International Society for Environmental Epidemiology (ISEE), Pasadena, California, 2008.

MacLehose RF, Dunson D, Richardson DB. "Bayesian hierarchical estimation of dose response curves." American Public Health Association, 136th Annual Meeting, San Diego CA, 2008.

MacLehose RF, Dunson D, Richardson DB. "Flexible non-parametric estimation of dose response curves." Society for Epidemiologic Research, 41st Annual Meeting, Chicago, IL 2008.

Hakenworth AM, Waller A, Richardson DB. "Linking North Carolina's Emergency Department and Ambulance Records for Disease Surveillance." American Public Health Association, 135th Annual Meeting, Washington DC, 2007.

Hamra G, Richardson DB, Nylander-French L. "Dose Reconstruction for an Occupational Cohort at the Savannah River Nuclear Facility: Evaluation of a hybrid method." International Society of Exposure Analysis, 17th Annual Meeting, Durham, NC, 2007.

Angelon K, Richardson DB, Wing S. "Inequalities in the nuclear age." American Public Health Association, 135th Annual Meeting, Washington DC, 2007.

Kim H, Burstyn I, Loomis D, Richardson D. "Bias Analysis In Regression Models With Individual- and Group-Based Exposure Assessment." 19th International Conference on Epidemiology in Occupational Health (EPICOH), Banff, Canada, 2007.

Rodríguez-Acosta RL, Schoenfisch AL, Richardson DB, Lipscomb HJ, Dement JM. "Injury and Illness Experience among Nurse Aides Employed in Acute Care at a Major Healthcare System." 19th International Conference on Epidemiology in Occupational Health (EPICOH), Banff, Canada, 2007.

Richardson DB, Wing S. "Mortality among workers at the Savannah River Site." 19th Conference of the International Society for Environmental Epidemiology (ISEE), Mexico City, Mexico, 2007.

Loomis D, Wolf S, Dement J, Richardson D. "Lung Cancer Mortality in North Carolina Asbestos Textile Workers, 1950-2003." Scientific Committee on Epidemiology in Occupational Health (EPICOH), Banff, Canada, 2007.

Kim H, Burstyn I, Loomis D, Richardson D. "Bias Analysis In Regression Models With Individual- and Group-Based Exposure Assessment." Canadian Society for Epidemiology and Biostatistics, Calgary, Canada, 2007.

Richardson DB, Wing S. "Investigating Temporal Patterns of Exposure Effects Using Multistage Models." 18th Conference of the International Society for Environmental Epidemiology (ISEE), Paris, France, 2006.

Loomis D, Richardson D, Stainback K, Schulman M, Bailer J, Wheeler M, , Marshall S. "State Political Economy and Occupational Fatality Rates in the United States." International Commission on Occupational Health (ICOH), Milan, Italy, 2006.

Richardson DB, Ashmore J. "Critical Windows: How Time Patterns of Exposure Can Influence Disease Risk." 17th Conference of the International Society for Environmental Epidemiology, Johannesburg, South Africa, 2005.

Clapp R, Richardson DB. "Capacity Building for Environmental and Occupational Health in Southern Africa." 17th Conference of the International Society for Environmental Epidemiology, Johannesburg, South Africa, 2005.

Chen JC, Richardson DB. "Informative vs. Non-Informative Cases: Implications for Design and Analyses of Case-Crossover Studies." Joint Meeting of the Society for Epidemiologic Research and the Canadian Society for Epidemiology and Biostatistics, Toronto, Canada, 2005.

van Wijngaarden E, Richardson D. "A graphical method to evaluate exposure-response relationships for sparse data." 16th Conference of the International Society for Environmental Epidemiology, New York, NY, 2004.

Loomis D, Richardson D, Elliott L. "Ungrouped Poisson regression analysis of epidemiologic studies with quantitative exposure data." Exposure Assessment in a Changing Environment, Utrecht, The Netherlands, 2004.

Mirabelli M, Richardson D. "Heat-related fatalities in North Carolina." Third National Occupational Injury Research Symposium (NOIRS), Pittsburgh, PA, 2003.

Bena J, Richardson D, Bailer AJ, Loomis D, Marshall S. "Comparison of fatality rate denominator choices: Population based methods." Third National Occupational Injury Research Symposium (NOIRS), Pittsburgh, PA, 2003.

Richardson D, Watson J, Wing S, Wolf S. "Evaluating Exposures to Ionizing Radiation among Hanford Workers." American Public Health Association, 126th Annual Meeting, Washington DC, 1998.

Wing S, Richardson D. "Radiation and Mortality among US Department of Energy Workers. STAR Symposium on Low Level Radiation and Implications for Medicine and the Nuclear Industry, New York Academy of Medicine, New York, NY, 1998.

Richardson D, Wing S. "Radiation and Cause-Specific Mortality among Workers at Oak Ridge National Laboratory." International Congress on the Effects of Low Dose Ionizing Radiation, Muenster, Germany, 1998.

Wolf S, Richardson D, Elliot L. "Information for Historical Studies of Hanford Workers: Current Challenges." First Annual Conference on the Health of the Hanford Site: Current Challenges, Richland, WA, 1997.

Richardson D, Wing S., Wolf S. "Occupational Exposure to Ionizing Radiation and Cancer Mortality among Hanford Workers: Continuing Research." First Annual Conference on the Health of the Hanford Site: Current Challenges, Richland, WA, 1997.

Richardson D, Wing S. "Evidence of Increasing Sensitivity to Radiation at Older Ages among Workers at Oak Ridge National Laboratory." Presented at the International Workshop on Radiation Exposures by Nuclear Facilities, Evidence of the Impact on Health, Portsmouth, England, 1996.

Richardson D, Wing S, Stewart A. "Epidemiologic Studies of the Effects of Exposure to Ionizing Radiation." In, Ermittlung des Standes wissenschaftlicher Erkenntnisse und der Verlaßlichkeit der Strahlenschutz-Bestimmungen. Ministeriums für Finanzen und Energie des Landes Schleswig-Holstein, 1997.

Richardson D, Loomis D. "Fatal Agricultural Injuries in North Carolina." Presented at the 11th International Symposium on Epidemiology in Occupational Health, Noordwijkerhout, The Netherlands, 1995.

Richardson D. "History of Byssinosis in the United States." Presented at the Sixth Latin American and Eighth World Congress on Social Medicine, Guadalajara, Mexico, 1994.

Invited Presentations

Richardson DB. “The connection between policy options and causal inference methods.” Institut National de la Sante et de la Recherche Medicale (INSERM), Hopital Paul Brousse, Universite Paris-Sud, Paris, France, 2016.

Richardson DB. “The International Nuclear Workers Study” Radiation Research Society joint meeting with Conference on Radiation and Health, Hawaii, 2016.

Richardson DB. “Earthquake, Tsunami, Nuclear Crisis: Fukushima and Lessons from Hiroshima.” Department of Epidemiology, Biostatistics, and Occupational Health, McGill University, Montreal, Canada, 2014.

Richardson DB. Keynote Address, “Statistical models to improve risk assessments.” EPICOH, 23rd Conference on Epidemiology in Occupational Health, Utrecht, The Netherlands, 2013.

Richardson DB. Seminar, “Improving the impact of occupational epidemiology.” National Center for Environmental Assessment, US Environmental Protection Agency, Washington, DC, 2013.

Richardson DB. Symposium, “Asbestos and Cancer: Science and Policy Implications.” ISEE, Basel, Switzerland, 2013.

Richardson DB. “Occupational and Environmental Radiation Exposures.” Boston University, Boston, MA, 2013.

Richardson DB. “The Fukushima Nuclear Crisis: Lessons from Hiroshima.” Oberlin College, Oberlin, Ohio, 2012.

Richardson DB. “Past and Future approaches to the healthy worker effect.” Drexel University, Philadelphia, PA, 2012.

Richardson DB. Earthquake, Tsunami, Nuclear Crisis: Fukushima and Lessons from Hiroshima. Medical University of South Carolina, Charleston, SC, 2011.

Richardson DB. “Epidemiological models for heat waves: Issues and Illustration.” Climate and Health in North Carolina: Emerging Risks and Opportunities. CDC/ North Carolina Division of Public Health/Southeast Regional Climate Center, Chapel Hill, NC, 2011.

Richardson DB. “Fukushima and the future of safe energy.” Physicians for Social Responsibility, Washington, DC, 2011.

Richardson DB. “Leveraging linkages: Emergency department data for environmental and occupational health surveillance.” North Carolina Division of Public Health, Raleigh, NC, 2011.

Richardson DB. “Ionizing radiation and lymphoma mortality among Japanese atomic bomb survivors and US DOE workers.” Drexel University, Philadelphia, PA, 2010.

Richardson DB, "Long-term follow-up of the Japanese atomic bomb survivors: Insights for the World Trade Center Medical Monitoring and Treatment Program." World Trade Center Responder Health Consortium, World Trade Center Medical Monitoring and Treatment Program, Mount Sinai School of Medicine, New York, New York, 2010.

Richardson DB. "Ionizing radiation and lymphoma mortality among Japanese atomic bomb survivors and US DOE workers." International Agency for Research on Cancer, Lyon, France, 2010.

Richardson DB. "Long-term effects of occupational radiation exposures." Center for Research in Environmental Epidemiology, Barcelona, Spain, 2010.

Richardson DB. "Ionizing radiation and leukemia mortality among Japanese atomic bomb survivors, 1950-2000." Radiation Effects Research Foundation, Hiroshima, Japan. 2008.

Richardson DB. "Ionizing radiation and mortality due to lymphoma." 29th Radiation Effects Research Foundation Colloquium, Radiation Effects Research Foundation, Hiroshima, Japan. 2008.

Richardson DB. "Mortality among Savannah River Site Workers." Radiation Epidemiology Branch Seminar, National Cancer Institute, Bethesda, MD. 2007.

Richardson DB. "Susceptibility and Occupational Radiation Risks." North Carolina Health Physics Society Annual Meeting, Asheville, North Carolina. 2006.

Richardson DB. "Critical Time Windows of Exposure" Departmental Seminar Series, Department of Environmental Health, University of Cincinnati, Ohio. 2006.

Richardson DB. "Critical Windows: How Time Patterns of Exposure Can Influence Disease Risk." NORA Interdisciplinary Seminar, Chapel Hill, North Carolina. 2006.

Richardson DB. "Critical Windows: How Time Patterns of Exposure Can Influence Disease Risk." Alfried Krupp Kolleg, University of Greifswald, Germany. 2006.

Richardson DB. "Radiation and Health: Epidemiological Studies of the Nuclear Industry." Nuclear Power and Global Warming. Warrenton, VA, 2005.

Richardson D. "How many at risk? Estimating rate denominators for occupational mortality rates at the state level." Bureau of Labor Statistics/National Institute for Occupational Safety and Health Workshop "Data Resources for Occupational Health Surveillance and Research," Washington, DC, 2004.

Richardson D. "Controversies around radiation risk estimates." Institute for Energy and Environmental Research Technical Training Workshop on Radiation and Health, Takoma Park, MD, 2002.

Richardson D. "Increased effects of exposures after age 45." Agency for Toxic Substances and Disease Registry: Hanford Health Effects Subcommittee and Inter-tribal Council on Hanford Health Projects, Kennewick, WA, 2001.

Richardson D. "Testing radiation exposures: Who sets the standards?" Medical Association for the Prevention of War, National Conference, Canberra, Australia, 2000.

Richardson D, Wing S. "Time-related factors in radiation-cancer associations among workers at Oak Ridge National Laboratory." Worker-Management and Public Meeting, Oak Ridge, TN, 1998.

Richardson D, Wing S. "External Ionizing Radiation and Cancer Mortality among Workers at Oak Ridge National Laboratory" NIOSH/DOE Surveillance Programs: Partners and Stakeholders Meeting, Cincinnati, OH, 1998.

Richardson D, Wing S, Wolf S. "Ionizing Radiation and Mortality Among Hanford Workers." NIOSH/DOE Surveillance Programs: Partners and Stakeholders Meeting, Cincinnati, OH, 1997.

Teaching Experience (Lead Instructor/Co-instructor)

Advanced Environmental Epidemiology (EPID 799B). Department of Epidemiology, UNC-CH. Fall 2015. Lead instructor. 9 students.

Epidemiologic Analysis of Binary Data (EPID 718). Department of Epidemiology, UNC-CH. Fall 2014. Co-instructor. 42 students.

Epidemiologic Analysis of Binary Data (EPID 718). Department of Epidemiology, UNC-CH. Fall 2013. Lead instructor. 38 students.

Advanced Methods in Epidemiology. Bayesian Epidemiology: Principles and Practice (EPID 730). Department of Epidemiology, UNC-CH. Spring 2013. Co-instructor. 15 students.

Epidemiologic Analysis of Binary Data (EPID 718). Department of Epidemiology, UNC-CH. Fall 2012. Lead instructor. 52 students.

Advanced Methods in Epidemiology. Bayesian Epidemiology: Principles and Practice (EPID 730). Department of Epidemiology, UNC-CH. Spring 2012. Co-instructor. 15 students.

Epidemiologic Analysis of Binary Data (EPID 718). Department of Epidemiology, UNC-CH. Fall 2011. Lead instructor. 50 students.

Advanced Methods in Epidemiology. Bayesian Epidemiology: Principles and Practice (EPID 730). Department of Epidemiology, UNC-CH. Spring 2011. Co-instructor. 15 students.

Epidemiologic Analysis of Binary Data (EPID 718). Department of Epidemiology, UNC-CH. Fall 2010. Lead instructor. 53 students.

Epidemiologic Analysis of Binary Data (EPID 718). Department of Epidemiology, UNC-CH. Fall 2009. Lead instructor. 37 students.

Epidemiologic Analysis of Binary Data (EPID 718). Department of Epidemiology, UNC-CH. Fall 2008. Lead instructor. 46 student.

Epidemiologic Analysis of Binary Data (EPID 718). Department of Epidemiology, UNC-CH. Fall 2007. Lead instructor. 52 students.

Analysis of Case-Control Data (Summer Course). International Summer School of Epidemiology in Ulm, Germany. July 2006.

Epidemiologic Analysis of Binary Data (EPID 718). Department of Epidemiology, UNC-CH. Fall 2006. Co-instructor. 46 students.

Epidemiologic Analysis of Binary Data (EPID 269). Department of Epidemiology, UNC-CH. Fall 2005. Co-instructor. 35 students.

Teaching Experience (Guest Lectures)

Cancer Epidemiology (EPID 770). Department of Epidemiology, UNC-CH. Spring 2010, 2011, 2012, 2013, 2014. Guest lecture “Radiation and Cancer.”

Epidemiologic Analysis of Survival Data (EPID 730). Department of Epidemiology, UNC-CH. Spring 2012. Guest lecture “Linear Rate and Excess Relative Rate Models.”

Occupational and Environmental Epidemiology (EPID 750). Department of Epidemiology, UNC-CH. Spring 2012, 2013, 2014. Guest lecture “Occupational and Environmental Radiation Exposures.”

Environmental Exposure Analysis (ENVIRON 780). Nicholas School of the Environment, Duke University, Durham, North Carolina, 2014. Guest lecture “Occupational and Environmental Radiation Exposures.”

Graduate Students Supervised

Doctoral Students as Committee Chair

Rosa Rodriguez-Acosta “Occupational Injury and Illness Experience of Nurse Aides Employed at Duke University Health System” (Graduated: August, 2007). Prior status: Epidemiologist, Centers for Disease Control and Prevention, San Juan, Puerto Rico. Current status: Epidemiologist, NIOSH Center for Motor Vehicle Safety, National Institute for Occupational Safety and Health, Division of Safety Research, Morgantown, WV.

Phuong-Thao Vo “DDE and PCBs: Their intra-individual changes, correlations, predictors, and role in timing of menopause.” (Graduated: November, 2007).

Ghassan Hamra “Bayesian Methods for the Evaluation of Tritium: Relative Biological Effectiveness and Cancer Risk” (Graduated: February, 2011). Awards: Sidney Kark Award for Distinguished Teaching Assistant (2011). Current status: Assistant Professor, Drexel University, Philadelphia, PA.

Jerrod Nelms. “Unemployment change and homicide: An exploration of the national violent death reporting system.” (Graduated: May, 2013). Current status: Occupational health consultant, Gainesville, FL.

Kim Angelon Gaetz. “Free to Breathe, Free to Teach: Indoor air quality in schools and respiratory health of teachers” (Graduated: May, 2014). Honors and Awards: EPA Star Fellowship Awardee. Current status: Public Health Epidemiologist. Environmental Health Section, Division of Public Health, N.C. Department of Health and Human Services.

Alex Keil “Methods for the Healthy Worker Survivor Effect” (Graduated: 2014). Honors and Awards: EPICOH Young Investigator Award, Best Conference Abstract (2014). Current status: Post-doctoral fellow, University of North Carolina at Chapel Hill.

Steven Lippmann “Effects of High Temperatures on Cause-Specific Emergency Department Visits in North Carolina.” (Graduated: July, 2015). Researcher, Duke University School of Medicine.

Jessica Laine “Intervention on metabolism of iAs during the prenatal period and risk for lower birthweight.” (expected graduation: 2017).

Kaitlin Kelly-Reif “Radon and mortality among Czech uranium miners” (expected graduation: 2018)

Nate Debono “Plastics and breast cancer among auto workers” (expected graduation 2018)

Doctoral Students as Committee Member

Kelly K. Gurka “Workplace homicide in North Carolina, 1994-2003: A case series and an examination of recommended prevention strategies.” (Graduated: October, 2007). Current status: Assistant Professor, Department of Community Medicine, West Virginia University.

Rachael Avery Horton “Psychophysiologic effects of odor from industrial hog operations on the health of neighboring residents.” (Graduated: October, 2007).

Lynette S. Phillips “Breast ductal carcinoma in situ (DCIS): Reproductive and hormonal risk factors and reliability of histologic diagnoses” (Graduated: June, 2007). Current status: Assistant Professor, Department of Epidemiology, Kent State University.

Linda Gaines “Diisocyanate exposures among auto body painters” (ESE: Graduated, June 2010). Current status: Environmental Health Scientist, U.S. Environmental Protection Agency.

Sheila Flack “Diisocyanate exposures among auto body painters” (ESE: Graduated, June 2010. Current status: Post-Doctoral Fellow, University of North Carolina).

Melinda Eaton “Non-battle injury and non-battle psychiatric illness in deployed Air Force members” (Graduated: May, 2010). Current status: Epidemiologist, U.S. Air Force.

Tania A. Desrosiers “Maternal occupational exposure to organic solvents during early pregnancy and selected congenital anomalies.” (Graduated: April, 2011). Current status: Epidemiologist, NC Division of Public Health.

Scott Masten “National Study of Teen Driver Licensing Systems and Graduated Driver Licensing Program Core Components.” (Graduated: May, 2011). Current status: Research manager, California Department of Motor Vehicles.

Kai Ding “Adjustment for high dimensional covariates in time-to-event analysis” (Department of Biostatistics; Graduated: May, 2011. Current status: Assistant Professor, Department of Biostatistics and Epidemiology, University of Oklahoma Health Sciences Center.)

Virginia Guidry “A Longitudinal Study of Acute Respiratory Health in Children Attending Schools Near Swine Concentrated Animal Feeding Operations.” (Graduated: August, 2011). Current status: Post-Doctoral Fellow, University of North Carolina.

Camille Metz-Flamant “Effets sanitaires des faibles doses a faibles debits de dose: modelisation de la relation dose-response dans une cohorte de travailleurs due nucléaire” (École Doctoral: Santé Publique Paris 11-Paris 5, Université Paris-Sud 11). (Graduated: September, 2011).

Ashley Naimi “Marginal structural models for the healthy worker survivor effect” (Graduated: 2012). Current status: Assistant Professor, University of Pittsburgh School of Public Health.

Leah Schinasi “Environmental, occupational, and medical exposures associated with methicillin resistant Staphylococcus aureus nasal carriage in patients admitted to an eastern North Carolina hospital” (Graduated: October, 2012). Current status: Post-Doctoral position, Drexel University, Philadelphia, PA.

Yingqi Zhao “Semiparametric and nonparametric methods in data mining and statistical learning with applications in public health surveillance and personalized medicine” (Department of Biostatistics; Graduated: May, 2012). Current status: Assistant Professor, Department of Biostatistics, University of Wisconsin-Madison.

Ashley Schoenfisch “The injury experience of union drywall carpenters in Washington state: 1989-2008” (Graduated: 2012). Current status: Research associate, Duke University.

Irina Mordukhovich “Polycyclic aromatic hydrocarbons and breast cancer in Long Island Breast Cancer Study Project” (Graduated: 2013). Current status: Post doctoral fellow,

Harvard School of Public Health.

Jeanette Stingone “Maternal exposure to criteria air pollutants during early pregnancy and congenital heart defects in offspring” (Graduated: March, 2013). Current status: Post-doctoral research associate, Mount Sinai School of Medicine.

Genee Smith “Air pollution and pulmonary tuberculosis disease in California” (Graduated: March, 2013). Current status: Research associate, U.S. Environmental Protection Agency.

Jess Edwards “Methods to account for outcome misclassification in epidemiology” (Graduated: March, 2013). Current status: Post-doctoral research fellow, University of North Carolina.

Anne Starling “Perfluorinated compounds during pregnancy and preeclampsia.” (Graduated: May, 2013). Current status: Post-Doctoral Fellow, University of Colorado-Denver, School of Medicine.

Steven Hoberman “Response adaptive designs for highly successful treatments, randomness, and relationship detection in clinical trials” (Under direction of Dr. Michael Kosorok and Anastasia Ivanova, Department of Biostatistics; Graduated: July, 2014). Current status: Statistician, US FDA.

Jessie Buckley “Prenatal phthalate exposures and childhood adiposity: examining the obesogen hypothesis.” (Graduated: November, 2014). Current status: Post-doctoral student, University of North Carolina; Assistant Professor, Johns Hopkins School of Public Health.

Evan Busch “Markers of epithelial-mesenchymal transition in colorectal cancer mortality” (Graduated: 2015). Current status: Post-doctoral research associate, Harvard University.

Jill Lebov “Pesticide exposure and renal disease” (Graduated: 2014). Current status: Post-doctoral researcher, National Institute of Environmental Health Sciences.

John Beard “Military Service, Deployments, and Exposures in Relation to Amyotrophic Lateral Sclerosis Etiology and Survival” (Graduated: March, 2015). Current status: US CDC, Epidemiological Intelligence Service.

Jessica Rinsky “The role of occupational exposure to animal production in chronic obstructive pulmonary disease among farmers in Iowa and North Carolina” (Graduated: March, 2015). Current status: US CDC, Epidemiological Intelligence Service.

Shannon Grabich “Associations Between Hurricane Exposure and Pregnancy Outcomes: A Demonstration of Ecological and Individual-level Methods” (Graduated: April, 2015).

Rebecca Yau “Injuries and eating disorders symptoms among elite ballet and modern dancers” (Graduated: May, 2016).

Yunro Chung “Statistical Contributions to Order Restricted Inference for Survival Data Analysis” (Under direction of Dr. Jason Fine and Anastasia Ivanova, Department of Biostatistics; Graduated: January, 2016).

Laurel Harduar Morano “Ambient outdoor heat exposure and heat-related illness in Florida” (graduated: April, 2016).

Kirstin Huiber “” (expected graduation: 2016).

Karen Roos “Overuse Injuries in High School and Collegiate Populations: Occurrence and Methodological Issues in Surveillance Data” (expected graduation: 2017).

Cynthia Lin “Extreme wet weather events and public health: Impacts on water quality and emergency department visits for waterborne illnesses” (expected graduation: 2016).

Jean Strelitz “Exposure to PM2.5, PAH, and BTEX during oil spill cleanup and incident coronary heart disease in the GuLF Study” (expected graduation: 2016)

Jennifer Lee “Impact of low-level detectable HIV viremia on cancer risk” (expected graduation 2016).

Laura McGuinn “Early life exposure to air pollution and autism spectrum disorder” (expected graduation: 2017).

Katie Harmon “Surveillance for sports-related injuries in North Carolina” (expected graduation: 2017).

Nat MacHardy “CAFO emissions and impacts on quality of life and sleep”

Emily Werder “Styrene exposure and neurologic effects in the GuLF STUDY” (expected graduation: 2017).

Sabine Hoffmann “Effects of measurement error on models for dose-response associations in a cohort of uranium miners” (École Doctoral: Santé Publique Paris 11-Paris 5, Université Paris-Sud 11). (expected graduation: September, 2017).

Master's Students:

Ghassan Hamra “Dose Reconstruction for an Occupational Cohort at the Savannah River Nuclear Facility: Evaluation of a hybrid method” (Environmental Sciences & Engineering, Graduated: May, 2007).

Leah Schinasi “Data quality and completeness in a community based and participatory epidemiologic study” (Graduated: November, 2007).

Kim Angelon “Inequalities in the Nuclear Age” (Graduated: January, 2008).

Nat McHardy “The environmental racism of Louisiana’s petrochemical industry” (Graduated: January, 2014). Current status: Doctoral student, UNC.

Kaitlin Kelly-Reif “A reanalysis of cancer incidence surrounding the Apollo nuclear facility: 1990-2010” (Graduated: May, 2015). Current status: Doctoral student, UNC.

Grants and Contracts

Ongoing and Completed

National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (R03OH010946). Role: Principal Investigator. Combined analysis of lung cancer among uranium miners, 9/2015 – 8/2017.

National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (R03-OH-10706). Role: Principal Investigator. Occupational exposure to asbestos: Effects of unregulated fibers, 10/2014 – 10/2016.

US EPA, Office of Research and Development. Role: Fellow. Research Participation Program, 9/2013-9/2015.

National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (T42-OH008673-02). Role: Principal Investigator. North Carolina Occupational Safety and Health Education and Research Center, 12/15/2006-06/30/2015.

National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (R03-OH-010056). Role: Principal Investigator. Combined analysis of mortality among nuclear workers, 2/15/2011 – 02/16/2013.

National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (R03-OH-009800). Role: Principal Investigator. Evaluation of tritium: relative biological effectiveness and cancer mortality, 8/15/2010 – 08/14/2012 (Total award: \$143,245).

National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (R01-OH-009407). Role: Principal Investigator. Long-term effects of occupational radiation exposures, 09/01/2009 – 08/31/2012 (Total Award: \$930,100).

National Cancer Institute, National Institutes of Health (R01-CA117841). Role: Principal Investigator. Cohort analysis methods for occupational cancer studies, 7/1/2007-12/31/2012 (Total Award: \$520,143).

National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (R01-OH-007803-05A1). Role: Co-Investigator. Chrysotile and Lung Cancer: Time-Related Effects and Pooled Analysis, 08/01/2008 – 01/31/2011 (Total Award: \$710,641).

University of North Carolina, School of Public Health, Gillings Innovation Laboratory. Role: Principal Investigator. Innovative Methods for Disease Surveillance, 08/15/2008 – 08/14/2010 (Total Award: \$564,610).

National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, Occupational Radiation and Energy-Related Health Research Grants Program (RO1-OH007871-01). Role: Principal Investigator. Susceptibility and Occupational Radiation Risks, 09/30/2002 – 9/29/2006 (Total Award: \$832,026).

National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (K01-OH008635-01). Role: Principal Investigator. Mechanistic models in occupational cancer epidemiology, 07/01/2006 – 06/30/2010 (Total Award: \$291,600).

National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (R01-OH007803-03). Role: Principal Investigator. Innovative metrics for asbestos exposure, 07/01/2006 – 06/30/2007 (Total Award: \$1,128,081). Note Principal Investigator Dana Loomis left the University in Year 5 of this project and Dr. Richardson assumed the role of Principal Investigator.

National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (RO3-OH0721-01). Role: Principal Investigator. Time-Factors in Exposure Effects among Uranium Workers, 05/01/2002 – 04/30/2004. (Total Award: \$145,500).

National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (RO1-OH03910-01A1). Role: Co-Investigator. Occupational Fatality Trends: A Contextual Analysis, 09/30/2000 – 09/29/2004 (Total Award: \$179,622).

North Carolina Department of Health and Human Services, Division of Public Health, Injury and Violence Prevention Branch. (Contract #01596-07). Role: Project Leader. Surveillance Activity of the Public Health Preparedness and Response Program, 09/01/2006 – 08/31/2007 (Total Award: \$65,902).

Alfried Krupp Kolleg Greifswald Foundation and Alfried Krupp von Bohlen und Halbach Foundation. Role: Principal Investigator. 05/01/2006-07/31/2006 (Total Award: \$25,587).

University Research Council, University of North Carolina at Chapel Hill, Research Grant Program. Role: Principal Investigator. Newborn Fetal Hemoglobin Levels and Cancers in Childhood, 12/1/2004-11/30/2006 (Total Award: \$4000).

National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, Pilot Projects Program. Role: Co-Investigator. Modeling of Trends in Fatal Occupational Injury in Older Workers, 07/06/2004-03/31/2006 (Total Award: \$21,900).

North Carolina Department of Health and Human Services, Division of Public Health, Injury and Violence Prevention Branch. Role: Project Epidemiologist. Terrorism Surveillance Activity of the Public Health Preparedness and Response Program, 11/01/2005 – 8/31/2006 (Total Award: \$22,677).

North Carolina Department of Health and Human Services, Division of Public Health, Injury and Violence Prevention Branch. Role: Project Epidemiologist. Terrorism Surveillance Activity of the Public Health Preparedness and Response Program, 8/15/2004 – 8/14/2005 (Total Award: \$92,950).

University Research Council, University of North Carolina at Chapel Hill, Research Grant Program. Role: Principal Investigator. Fetal Hemoglobin Level at Birth as a Risk Factor for SIDS, 12/01/2001-11/30/2003 (Total Award \$4000).

Additional Service

Reviewer, Infectious Disease, Reproductive Health, and Asthma/Pulmonary Conditions (IRAP) Study Section. Center for Scientific Review, National Institutes of Health, Washington DC, October 13-14, 2011.

Expert, National Institute for Occupational Safety and Health. Review of Monoclonal B-cell Lymphocytosis and Chronic Lymphocytic Leukemia: Etiologic factors, Precursors, and Disease. 2007.

Subject Matter Expert, National Institute for Occupational Safety and Health, Office of Compensation Analysis and Support. Smoking and Radiation Interactions: Reconsideration of Models under EEOICPA. 2005.

Advisory Board, North Carolina Department of Health and Human Services, Division of Public Health, Committee on Occupational Injury Surveillance. 2004-2006.

Subject Matter Expert, National Institute for Occupational Safety and Health, Office of Compensation Analysis and Support. Chronic Lymphocytic Leukemia: Reconsideration of Exclusion and Eligibility for Compensation under EEOICPA. 2004.

Subject Matter Expert, National Institute for Occupational Safety and Health, Office of Compensation Analysis and Support. Review of the NIOSH Interactive RadioEpidemiological Program. 2002.

Reviewer, Graduate Training Internship Program, Association of Schools of Public Health (ASPH)/Centers for Disease Control and Prevention (CDC). 2009.

Reviewer, Research Grants Program. Science Centers Program, U.S. Civilian Research and Development Foundation, U.S. Department of State. 2005.

Reviewer, Environmental Health Sciences Grants Review Committee. National Institute of Environmental Health Sciences and National Institute for Occupational Safety and Health. 2003.

Departmental Service

Core Faculty, Injury Prevention Research Center. University of North Carolina at Chapel Hill (2008- present).

Member, Exposure and Biomarkers Research Core, Center for Environmental Health and Susceptibility. University of North Carolina at Chapel Hill (2006- present).

Member, Cancer Epidemiology Program, Lineberger Comprehensive Cancer Center. University of North Carolina at Chapel Hill (2009- present).

Member, Injury Epidemiology Assistant Professor Search Committee, Department of Epidemiology (2015-2016).

Member, Staff Excellence Award Committee, Department of Epidemiology (2013).

Member, Chair's Council, Department of Epidemiology (2008-present).

Member, Post-tenure review committee, Department of Epidemiology (2010-present).

Co-ordinator, Epidemiologic Methods Qualifying Exam, Department of Epidemiology (2008).

Epidemiologic Methods Qualifying Exam, Department of Epidemiology (2007 - 2013).

Occupational & Environmental Substantive Qualifying Exam (2005-2010)

Graduate Studies Committee, Department of Epidemiology (2005-present)

Curriculum Subcommittee of the Graduate Studies Committee (2008-present)

Research Space Committee, Department of Epidemiology (2005).

Faculty Mentoring, Karin Yeatts and Melissa Troester, Department of Epidemiology (2009-2011)