

BRUCE HART ALEXANDER, PhD
Curriculum Vitae

WORK ADDRESS

Division of Environmental Health Sciences
School of Public Health
University of Minnesota
MMC 807 Mayo Building Room 1260
420 Delaware St. S.E.
Minneapolis, MN 55455

EDUCATION

- PhD, Epidemiology. University of Washington, Seattle, Washington, 1994.
Dissertation: Semen Quality and Reproductive Histories as Indicators of the Reproductive Health of Men Employed at a Lead Smelter.
Harvey Checkoway, PhD, Advisor
- MS, Environmental Health. Colorado State University, Fort Collins, Colorado, 1987
- BS, Environmental Health. Colorado State University, Fort Collins, Colorado, 1984

RESEARCH INTERESTS

- Environmental and occupational epidemiology
- Health of agricultural populations
- Global Health
- One Health
- Environmental determinants of cancer and respiratory disease
- Injury prevention and control
- Application of biological markers in epidemiological research

PROFESSIONAL EXPERIENCE

Professor and Head, Mayo Professor in Public Health, Division of Environmental Health Sciences, School of Public Health, University of Minnesota, Minneapolis, Minnesota. 2022-Present

Professor and Head, Department of Environmental and Radiological Health Sciences, College of Veterinary Medicine and Biomedical Sciences, Colorado State University, Fort Collins, CO 2019-2022

Professor (Adjunct), Division of Environmental Health Sciences, School of Public Health, University of Minnesota, Minneapolis, Minnesota. 2019-Present

Professor and Head, Mayo Professor in Public Health, Division of Environmental Health Sciences, School of Public Health, University of Minnesota, Minneapolis, Minnesota. 2014-2019

Professor, Division of Environmental Health Sciences, School of Public Health, University of Minnesota, Minneapolis, Minnesota. 2010-2014

Director, Upper Midwest Agricultural Safety and Health Center, 2011-2019

Director, Occupational and Environmental Epidemiology Training Program, Midwest Center for Occupational Safety and Health Division of Environmental Health Sciences, University of Minnesota, 2011-2019

Co-Director: Occupational Injury Research and Training Program, Midwest Center for Occupational Safety and Health, Division of Environmental Health Sciences, University of Minnesota, 2002-2016.

Member, University of Minnesota Cancer Center, Minneapolis, Minnesota, 2001-Present.

Associate Professor, Division of Environmental Health Sciences, School of Public Health, University of Minnesota, Minneapolis, Minnesota. 2005-2010

Associate Professor (Adjunct), Division of Epidemiology and Community Health, School of Public Health, University of Minnesota, Minneapolis, Minnesota, 2006-2010

Assistant Professor, Division of Environmental Health Sciences, School of Public Health, University of Minnesota, Minneapolis, Minnesota. 1998-2005

Research Scientist, Department of Environmental Health, School of Public Health and Community Medicine, University of Washington, Seattle, Washington. July, 1996-November, 1998

Post-Doctoral Research Fellow, Department of Epidemiology, School of Public Health and Community Medicine, University of Washington, Seattle, Washington. September, 1994-June, 1996.

Pre-Doctoral Trainee, Department of Epidemiology, School of Public Health and Community Medicine, University of Washington, Seattle, Washington. September, 1990-August, 1994.

Graduate Research Assistant, Harborview Injury Prevention and Research Center, School of Public Health and Community Medicine University of Washington, Seattle, Washington. September, 1989-August, 1990

Epidemiologist, American Refugee Committee, Aranyaprathet, Thailand, Site 2 Camp for Displaced Cambodians. October, 1987 - August, 1989

Graduate Research Assistant, Department of Environmental Health, College of Veterinary Medicine and Biomedical Sciences, Colorado State University, September, 1985 - May, 1987

Graduate Teaching Assistant, Department of Environmental Health, College of Veterinary Medicine and Biomedical Sciences, Colorado State University, September, 1984 - May, 1985

MEMBERSHIPS

- International Commission on Occupational Health 2013-present
- Society for Epidemiologic Research 1987-present
- International Society for Environmental Epidemiology 1998-present
- American College of Epidemiology 2006-2012

- Delta Omega 2008-present

AWARDS

- Mayo Professor in Public Health, School of Public Health University of Minnesota 2014
- Delta Omega 2008
- Faculty Excellence Award. Division of Environmental and Occupational Health, University of Minnesota, 2002 (Awarded by Students for overall excellence in teaching, advising, and mentorship)
- Bush Faculty Development Fellow for Excellence and Diversity in Education 1999-2000
- Colorado Environmental Health Association Scholarship, Department of Environmental Health, Colorado State University, 1986
- Performing Arts Scholarship, Department of Music, Colorado State University, 1980

COMMITTEES AND SERVICE

- External Reviewer, The North Carolina Agrimedicine Institute, East Carolina University, December 2-3 2019
- Member, DVM/MPH Program Advisory Committee, School of Public Health/College of Veterinary Medicine University of Minnesota, 2018-2019
- Advisor. National Pork Board Producer, Public Health and Workplace Safety Committee 2018-2019
- International One Medicine One Science Meeting Planning Committee, 2017-present
- Member, (Chair 2011-15) present. Advisory Committee to the Minnesota Department of Health Biomonitoring and Environmental Health Tracking Program 2007-2019
- Faculty. Thailand One Health University Network Environmental Learning Institute. Kanchanaburi Thailand. June 7-14, 2016
- Faculty, Grant Writing Workshops. Thailand One Health University Network, Pattaya Thailand April 25-29, 2016
- Faculty, Grant Writing Workshops. Malaysia One Health University Network, Kuala Lumpur Malaysia April 21-23, 2016
- External Reviewer, Department of Environmental and Occupational Health, Colorado School of Public Health, University of Colorado, April, 2015
- Faculty, University of Minnesota-Chiang Mai University Global Health Institute. Co-taught Environmental Health Module. Chiang Mai, Thailand, February 11-14, 2014.
- External Reviewer, Department of Occupational and Environmental Health, College of Public Health, University of Iowa, October 2013.

- Participant, Engaging Intergovernmental Organizations Training Course (WHO, FAO, OIE). Geneva, Rome, Paris, March, 2013
- Faculty, University of Minnesota-Chiang Mai University Global Health Institute. Co-taught Cross-species Surveillance Module. Chiang Mai, Thailand, February 6-9, 2012
- Reviewer, Fogarty International Center Planning Grants for Hubs of Interdisciplinary Research and Training in Global Environmental and Occupational Health (GEOHealth) (P20) June 25-26, 2012
- Member, National Academy of Sciences National Research Council Committee on : Review of Studies of Possible Toxic Effects from Past Environmental Contamination at Fort Detrick. 2011
- Reviewer, National Institute for Occupational Safety and Health Training Program Grants. March 17-18, 2011
- Reviewer, National Institute for Occupational Safety and Health Study Section. February 17-18, 2010
- Reviewer, Neurological, Aging, and Musculoskeletal Epidemiology (NAME) Study Section. October, 2009
- Chair, Ad-Committee for Doctor of Public Health Degree Program, University of Minnesota, School of Public Health 2009-2010
- Member, National Academy of Sciences National Research Council Committee on Tetrachloroethylene. 2007-2009
- Advisor, Indigenous Women's Mercury Investigation, North American Water Office 2007-2009
- Member, Birth Defects Work Group Advisory Panel. Minnesota Department of Health. 2005-present
- Member, Appointment Promotion and Tenure Committee, University of Minnesota, School of Public Health 2006-2009
- Reviewer for NIOSH ZOH1 SBO 50 2: Centers for Agriculture Disease and Injury Research, Education, and Prevention. 2007
- Reviewer NIOSH ZOH1 SBO 52 1: Centers for Agriculture Disease and Injury Research, Education, and Prevention. 2006
- Reviewer, NIOSH RFA-OH-01-001: Centers for Agriculture Disease and Injury Research, Education, and Prevention., 2004,
- Educator/Short course instructor. Health Effects of Pesticides. University of Washington International Training in Occupational and Environmental Health/Vietnamese National Institute of Occupational Health. Hanoi, Vietnam, November 1-4, 2004
- Consultant/Educator. Program to improve epidemiology, surveillance and health promotion in the Republic of Georgia. American Health International Health Alliance, Harvard Medical International. 2002-2003

- Reviewer: Midwest Education and Research Center Pilot Projects Research and Training Program 2000-2005
- Advisor, Minnesota Department of Health Youth at Work projects 2001-2004
- Member, Dean's Global Health Initiative Working Group, SPH, UMN. 2002-2004 Developed curriculum for the minor in Global Health Cross-Cutting Initiative.
- Reviewer for NIOSH RFA-OH-01-001: Centers for Agriculture Disease and Injury Research, Education, and Prevention. June 24-26, 2001, Rockville MD
- School of Public Health Space Planning and Building Committee 2002-2003
- Grant Proposal Reviewer, Ethel F. Donaghue Women's Health Investigator Program at Yale. 2000
- Consultant, Abbott Laboratories. Workplace risks of cancer and other diseases 1999
- Division of Environmental and Occupational Health Admissions Committee. 1999-present.
- Associate Editor, Journal of Agromedicine 2011-2014
- Peer Reviewer for:
 - American Journal of Epidemiology
 - Occupational and Environmental Medicine
 - Epidemiology
 - American Journal of Industrial Medicine
 - Environmental Health Perspectives
 - Scandinavian Journal of Work Environment and Health
 - Journal of Exposure Assessment and Environmental Epidemiology
 - Bulletin of Environmental Contamination and Toxicology
 - Injury Prevention
 - Science of the Total Environment
 - Journal of Agricultural Safety and Health
 - Archives of Pediatrics and Adolescent Medicine
 - Annals of Epidemiology
 - Journal of Radiation Biology

PUBLICATIONS (* indicates student first author)

1. **Alexander BH**, MacVean DW, Salman MD. Risk factors for lower respiratory tract disease in a cohort of feedlot cattle. *Journal of the American Veterinary Medical Association* 1989;195:207-211.
2. Elias CJ, **Alexander BH**, Sokly T. Infectious disease control in a long-term refugee camp: the role of epidemiologic surveillance and investigation. *American Journal of Public Health* 1990;80:824-828.
3. **Alexander BH**, Rivara FP, Thompson D, Thompson RS. Measurement of severity for nonhospitalized injuries in the pediatric age group. *Pediatric Emergency Care* 1992;8:148-151.
4. **Alexander BH**, Rivara FP, Wolf ME. The cost and frequency of hospitalization for fall-related injuries in older adults. *American Journal of Public Health* 1992;82:1020-1023.
5. Rivara FP, **Alexander B**, Johnston B, Soderberg R. Population-based study of fall injuries in children and adolescents resulting in hospitalization or death. *Pediatrics* 1993;92:61-63.
6. Wolf ME, **Alexander BH**, Rivara FP, Hickok DE, Maier RV, Starzyk PM. A retrospective cohort study of seatbelt use and pregnancy outcome after a motor vehicle crash. *Journal of Trauma-Injury Infection & Critical Care* 1993;34:116-119.
7. **Alexander BH**, Franklin GM, Wolf ME. The sexual assault of women at work in Washington State, 1980 to 1989. *American Journal of Public Health* 1994;84:640-642.
8. Rivara FP, Thompson DC, Thompson RS, Rogers LW, **Alexander B**, Felix D, Bergman AB. The Seattle children's bicycle helmet campaign: changes in helmet use and head injury admissions. *Pediatrics* 1994;93:567-569.
9. **Alexander BH**, Checkoway H, van Netten C, Muller CH, Ewers TG, Kaufman JD, Mueller BA, Vaughan TL, Faustman EM. Semen quality of men employed at a lead smelter. *Occupational & Environmental Medicine* 1996;53:411-416.
10. **Alexander BH**, Checkoway H, Wechsler L, Heyer NJ, Muhm JM, O'Keeffe TP. Lung cancer in chromate-exposed aerospace workers. *Journal of Occupational & Environmental Medicine* 1996;38:1253-1258.
11. Cullen MR, Checkoway H, **Alexander BH**. Investigation of a cluster of pituitary adenomas in workers in the aluminum industry. *Occupational & Environmental Medicine* 1996;53:782-786.
12. Gilmore TM, **Alexander BH**, Mueller BA, Rivara FP. Occupational injuries and medication use. *American Journal of Industrial Medicine* 1996;30:234-239.
13. **Alexander BH**, Checkoway H, Faustman EM, van Netten C, Muller CH, Ewers TG. Contrasting associations of blood and semen lead concentrations with semen quality among lead smelter workers. *American Journal of Industrial Medicine* 1998;34:464-469.

14. **Alexander BH**, Checkoway H, Costa-Mallen P, Faustman EM, Woods JS, Kelsey KT, van Netten C, Costa LG. Interaction of blood lead and delta-aminolevulinic acid dehydratase genotype on markers of heme synProject and sperm production in lead smelter workers. *Environmental Health Perspectives* 1998;106:213-216.
15. Schumacher C, Brodtkin CA, **Alexander B**, Cullen M, Rainey PM, van Netten C, Faustman E, Checkoway H. Thyroid function in lead smelter workers: absence of subacute or cumulative effects with moderate lead burdens. *International Archives of Occupational & Environmental Health* 1998;71:453-458.
16. **Alexander BH**, Franklin GM, Fulton-Kehoe D. Comparison of fatal and severe nonfatal traumatic work-related injuries in Washington state. *American Journal of Industrial Medicine* 1999;36:317-325.
17. **Alexander BH**, Checkoway H, Nagahama SI, Domino KB. Cause-specific mortality risks of anesthesiologists. *Anesthesiology* 2000;93:922-930.
18. Freedman DM, Tarone RE, Doody MM, Mohan A, **Alexander BH**, Boice JD, Linet MS. Trends in reproductive, smoking, and other chronic disease risk factors by birth cohort and race in a large occupational study population. *Annals of Epidemiology* 2002;12:363-369.
19. Mohan AK, Hauptmann M, Linet MS, Ron E, Lubin JH, Freedman DM, **Alexander BH**, Boice JD, Jr., Doody MM, Matanoski GM. Breast cancer mortality among female radiologic technologists in the United States. *Journal of the National Cancer Institute* 2002;94:943-948.
20. **Alexander BH**, Olsen GW, Burris JM, Mandel JH, Mandel JS. Mortality of employees of a perfluorooctanesulphonyl fluoride manufacturing facility. *Occupational & Environmental Medicine* 2003;60:722-729.
21. Bonauto DK, Keifer M, Rivara FP, **Alexander BH**. A community-based telephone survey of work and injuries in teenage agricultural workers. *Journal of Agricultural Safety & Health* 2003;9:303-317.
22. Doody MM, Sigurdson AS, Kampa D, Chimes K, **Alexander BH**, Ron E, Tarone RE, Linet MS. Randomized trial of financial incentives and delivery methods for improving response to a mailed questionnaire. *American Journal of Epidemiology* 2003;157:643-651.
23. Freedman DM, Sigurdson A, Rao RS, Hauptmann M, **Alexander B**, Mohan A, Morin Doody M, Linet MS. Risk of melanoma among radiologic technologists in the United States. *International Journal of Cancer* 2003;103:556-562.
24. Mohan AK, Hauptmann M, Freedman DM, Ron E, Matanoski GM, Lubin JH, **Alexander BH**, Boice JD, Jr., Doody MM, Linet MS. Cancer and other causes of mortality among radiologic technologists in the United States. *International Journal of Cancer* 2003;103:259-267.
25. Sigurdson AJ, Doody MM, Rao RS, Freedman DM, **Alexander BH**, Hauptmann M, Mohan AK, Yoshinaga S, Hill DA, Tarone R, Mabuchi K, Ron E, Linet MS. Cancer incidence in the US radiologic technologists health study, 1983-1998. *Cancer* 2003;97:3080-3089.

26. Acquavella JF, **Alexander BH**, Mandel JS, Gustin C, Baker B, Chapman P, Bleeke M. Glyphosate biomonitoring for farmers and their families: results from the Farm Family Exposure Study. *Environmental Health Perspectives* 2004;112:321-326.
27. *Findorff MJ, McGovern PM, Wall M, Gerberich SG, **Alexander B**. Risk factors for work related violence in a health care organization. *Injury Prevention* 2004;10:296-302.
28. Mateus Pereira LH, Sigurdson AJ, Doody MM, Pineda MA, **Alexander BH**, Greene MH, Struewing JP. CHEK2:1100delC and female breast cancer in the United States. *International Journal of Cancer* 2004;112:541-543.
29. Sigurdson AJ, Hauptmann M, Chatterjee N, **Alexander BH**, Doody MM, Rutter JL, Struewing JP. Kin-cohort estimates for familial breast cancer risk in relation to variants in DNA base excision repair, BRCA1 interacting and growth factor genes. *BMC Cancer* 2004;4:9.
30. Acquavella JF, Gustin C, **Alexander BH**, Mandel JS. Implications for epidemiologic research on variation by pesticide in studies of farmers and their families. *Scandinavian Journal of Work, Environment & Health* 2005;31 Suppl 1:105-109; discussion 163-105.
31. **Alexander BH**, Bloemen L, Allen RH. Summary of sessions on the epidemiology of agricultural exposure and cancer: Oxford International Symposiums on Agriculture Exposures and Cancer. *Scandinavian Journal of Work, Environment & Health* 2005;31 suppl 1:5-7.
32. *Baker BA, **Alexander BH**, Mandel JS, Acquavella JF, Honeycutt R, Chapman P. Farm Family Exposure Study: methods and recruitment practices for a biomonitoring study of pesticide exposure. *Journal of Exposure Analysis and Environmental Epidemiology* 2005;15:491-499.
33. *Carlson KF, Gerberich SG, Church TR, Ryan AD, **Alexander BH**, Mongin SJ, Renier CM, Zhang X, French LR, Masten A. Tractor-related injuries: a population-based study of a five-state region in the Midwest. *American Journal of Industrial Medicine* 2005;47:254-264.
34. Linet MS, Freedman DM, Mohan AK, Doody MM, Ron E, Mabuchi K, **Alexander BH**, Sigurdson A, Hauptmann M. Incidence of haematopoietic malignancies in US radiologic technologists. *Occupational & Environmental Medicine* 2005;62:861-867.
35. Mandel JS, **Alexander BH**, Baker BA, Acquavella JF, Chapman P, Honeycutt R. Biomonitoring for farm families in the farm family exposure study. *Scandinavian Journal of Work, Environment & Health* 2005;31 Suppl 1:98-104; discussion 163-105.
36. Peretz C, **Alexander BH**, Nagahama SI, Domino KB, Checkoway H. Parkinson's disease mortality among male anesthesiologists and internists. *Movement Disorders* 2005;20:1614-1617.
37. Sigurdson AJ, Hauptmann M, **Alexander BH**, Doody MM, Thomas CB, Struewing JP, Jones IM. DNA damage among thyroid cancer and multiple cancer cases, controls, and long-lived individuals. *Mutation Research* 2005;586:173-188.

38. Yoshinaga S, Hauptmann M, Sigurdson AJ, Doody MM, Freedman DM, **Alexander BH**, Linet MS, Ron E, Mabuchi K. Nonmelanoma skin cancer in relation to ionizing radiation exposure among U.S. radiologic technologists. *International Journal of Cancer* 2005;115:828-834.
39. Acquavella JF, **Alexander BH**, Mandel JS, Burns CJ, Gustin C. Exposure misclassification in studies of agricultural pesticides: insights from biomonitoring. *Epidemiology* 2006;17:69-74.
40. **Alexander BH**, Burns CJ, Bartels MJ, Acquavella JF, Mandel JS, Gustin C, Baker BA. Chlorpyrifos exposure in farm families: results from the farm family exposure study. *Journal of Exposure Science & Environmental Epidemiology* 2006;16:447-456.
41. *Carlson KF, *Langner D, **Alexander BH**, Gurney JG, Gerberich SG, Ryan AD, Renier CM, Mongin SJ. The association between parents' past agricultural injuries and their children's risk of injury: analyses from the Regional Rural Injury Study-II. *Archives of Pediatrics & Adolescent Medicine* 2006;160:1137-1142.
42. Doody MM, Freedman DM, **Alexander BH**, Hauptmann M, Miller JS, Rao RS, Mabuchi K, Ron E, Sigurdson AJ, Linet MS. Breast cancer incidence in U.S. radiologic technologists. *Cancer* 2006;106:2707-2715.
43. *Kurszewski LS, Gerberich SG, Serfass RC, Ryan AD, Renier CM, **Alexander BH**, Carlson KF, Masten AS. Sports and recreational injuries: regional rural injury study-II: impact on agricultural households and operations. *British Journal of Sports Medicine* 2006;40:527-535.
44. Linet MS, Hauptmann M, Freedman DM, **Alexander BH**, Miller J, Sigurdson AJ, Doody MM. Interventional radiography and mortality risks in U.S. radiologic technologists. *Pediatric Radiology* 2006;36 Suppl 14:113-120.
45. *Paulson EH, Gerberich SG, **Alexander BH**, Ryan A, Renier CM, Zhang X, French LR, Masten AS, Carlson KF. Fall-related injuries among agricultural household members: Regional Rural Injury Study II (RRIS-II). *Journal of Occupational & Environmental Medicine* 2006;48:959-968.
46. Rajaraman P, Sigurdson AJ, Doody MM, Freedman DM, Hauptmann M, Ron E, **Alexander BH**, Linet MS. Lung cancer risk among US radiologic technologists, 1983-1998. *International Journal of Cancer* 2006;119:2481-2486.
47. Stredrick DL, Garcia-Closas M, Pineda MA, Bhatti P, **Alexander BH**, Doody MM, Lissowska J, Peplonska B, Brinton LA, Chanock SJ, Struewing JP, Sigurdson AJ. The ATM missense mutation p.Ser49Cys (c.146C>G) and the risk of breast cancer. *Human Mutation* 2006;27:538-544.
48. *Zabel EW, **Alexander BH**, Mongin SJ, Doody MM, Sigurdson AJ, Linet MS, Freedman DM, Hauptmann M, Mabuchi K, Ron E. Thyroid cancer and employment as a radiologic technologist. *International Journal of Cancer* 2006;119:1940-1945.
49. **Alexander BH**, Olsen GW. Bladder cancer in perfluorooctanesulfonyl fluoride manufacturing workers. *Annals of Epidemiology* 2007;17:471-478.

50. **Alexander BH**, Mandel JS, Baker BA, Burns CJ, Bartels MJ, Acquavella JF, Gustin C. Biomonitoring of 2,4-dichlorophenoxyacetic acid exposure and dose in farm families. *Environmental Health Perspectives* 2007;115:370-376.
51. Bhatti P, Preston DL, Doody MM, Hauptmann M, Kampa D, **Alexander BH**, Petibone D, Simon SL, Weinstock RM, Bouville A, Yong LC, Freedman DM, Mabuchi K, Linet MS, Edwards AA, Tucker JD, Sigurdson AJ. Retrospective biodosimetry among United States radiologic technologists. *Radiation Research* 2007;167:727-734.
52. Chodick G, Freedman MD, Kwok RK, Fears TR, Linet MS, **Alexander BH**, Kleinerman RA. Agreement between contemporaneously recorded and subsequently recalled time spent outdoors: implications for environmental exposure studies. *Annals of Epidemiology* 2007;17:106-111.
53. Cox A, Dunning AM, Garcia-Closas M, Balasubramanian S, Reed MW, Pooley KA, Scollen S, Baynes C, Ponder BA, Chanock S, Lissowska J, Brinton L, Peplonska B, Southey MC, Hopper JL, McCredie MR, Giles GG, Fletcher O, Johnson N, dos Santos Silva I, Gibson L, Bojesen SE, Nordestgaard BG, Axelsson CK, Torres D, Hamann U, Justenhoven C, Brauch H, Chang-Claude J, Kropp S, Risch A, Wang-Gohrke S, Schurmann P, Bogdanova N, Dork T, Fagerholm R, Aaltonen K, Blomqvist C, Nevanlinna H, Seal S, Renwick A, Stratton MR, Rahman N, Sangrajrang S, Hughes D, Odefrey F, Brennan P, Spurdle AB, Chenevix-Trench G, Kathleen Cunningham Foundation Consortium for Research into Familial Breast C, Beesley J, Mannermaa A, Hartikainen J, Kataja V, Kosma VM, Couch FJ, Olson JE, Goode EL, Broeks A, Schmidt MK, Hogervorst FB, Van't Veer LJ, Kang D, Yoo KY, Noh DY, Ahn SH, Wedren S, Hall P, Low YL, Liu J, Milne RL, Ribas G, Gonzalez-Neira A, Benitez J, Sigurdson AJ, Stredrick DL, **Alexander BH**, Struewing JP, Pharoah PD, Easton DF, Breast Cancer Association C. A common coding variant in CASP8 is associated with breast cancer risk. *Nature Genetics* 2007;39:352-358.
54. Easton DF, Pooley KA, Dunning AM, Pharoah PD, Thompson D, Ballinger DG, Struewing JP, Morrison J, Field H, Luben R, Wareham N, Ahmed S, Healey CS, Bowman R, collaborators S, Meyer KB, Haiman CA, Kolonel LK, Henderson BE, Le Marchand L, Brennan P, Sangrajrang S, Gaborieau V, Odefrey F, Shen CY, Wu PE, Wang HC, Eccles D, Evans DG, Peto J, Fletcher O, Johnson N, Seal S, Stratton MR, Rahman N, Chenevix-Trench G, Bojesen SE, Nordestgaard BG, Axelsson CK, Garcia-Closas M, Brinton L, Chanock S, Lissowska J, Peplonska B, Nevanlinna H, Fagerholm R, Eerola H, Kang D, Yoo KY, Noh DY, Ahn SH, Hunter DJ, Hankinson SE, Cox DG, Hall P, Wedren S, Liu J, Low YL, Bogdanova N, Schurmann P, Dork T, Tollenaar RA, Jacobi CE, Devilee P, Klijn JG, Sigurdson AJ, Doody MM, **Alexander BH**, Zhang J, Cox A, Brock IW, MacPherson G, Reed MW, Couch FJ, Goode EL, Olson JE, Meijers-Heijboer H, van den Ouweland A, Uitterlinden A, Rivadeneira F, Milne RL, Ribas G, Gonzalez-Neira A, Benitez J, Hopper JL, McCredie M, Southey M, Giles GG, Schroen C, Justenhoven C, Brauch H, Hamann U, Ko YD, Spurdle AB, Beesley J, Chen X, kConFab, Group AM, Mannermaa A, Kosma VM, Kataja V, Hartikainen J, Day NE, Cox DR, Ponder BA. Genome-wide association study identifies novel breast cancer susceptibility loci. *Nature* 2007;447:1087-1093.

55. *Grice MM, **Alexander BH**, Hoffbeck R, Kampa DM. Self-reported medical conditions in perfluorooctanesulfonyl fluoride manufacturing workers. *Journal of Occupational & Environmental Medicine* 2007;49:722-729.
56. *Grice MM, Feda D, McGovern P, **Alexander BH**, McCaffrey D, Ukestad L. Giving birth and returning to work: the impact of work-family conflict on women's health after childbirth. *Annals of Epidemiology* 2007;17:791-798.
57. *Larson-Bright M, Gerberich SG, **Alexander BH**, Gurney JG, Masten AS, Church TR, Ryan AD, Renier CM. Work practices and childhood agricultural injury. *Injury Prevention* 2007;13:409-415.
58. Lonn S, Bhatti P, **Alexander BH**, Pineda MA, Doody MM, Struewing JP, Sigurdson AJ. Papillary thyroid cancer and polymorphic variants in TSHR- and RET-related genes: a nested case-control study within a cohort of U.S. radiologic technologists. *Cancer Epidemiology, Biomarkers & Prevention* 2007;16:174-177.
59. Mongin SJ, Jensen KE, Gerberich SG, **Alexander BH**, Ryan AD, Renier CM, Masten AS, Carlson KF. Agricultural injuries among operation household members: RRIS-II 1999. *Journal of Agricultural Safety & Health* 2007;13:295-310.
60. Nachreiner NM, Dagher RK, McGovern PM, Baker BA, **Alexander BH**, Gerberich SG. Successful return to work for cancer survivors. *AAOHN Journal* 2007;55:290-295.
61. *Scher DP, **Alexander BH**, Adgate JL, Eberly LE, Mandel JS, Acquavella JF, Bartels MJ, Brzak KA. Agreement of pesticide biomarkers between morning void and 24-h urine samples from farmers and their children. *Journal of Exposure Science & Environmental Epidemiology* 2007;17:350-357.
62. Sigurdson AJ, Bhatti P, Doody MM, Hauptmann M, Bowen L, Simon SL, Weinstock RM, Linet MS, Rosenstein M, Stovall M, **Alexander BH**, Preston DL, Struewing JP, Rajaraman P. Polymorphisms in apoptosis- and proliferation-related genes, ionizing radiation exposure, and risk of breast cancer among U.S. Radiologic Technologists. *Cancer Epidemiology, Biomarkers & Prevention* 2007;16:2000-2007.
63. Bhatti P, Doody MM, **Alexander BH**, Yuenger J, Simon SL, Weinstock RM, Rosenstein M, Stovall M, Abend M, Preston DL, Pharoah P, Struewing JP, Sigurdson AJ. Breast cancer risk polymorphisms and interaction with ionizing radiation among U.S. radiologic technologists. *Cancer Epidemiology, Biomarkers & Prevention* 2008;17:2007-2011.
64. Bhatti P, Sigurdson AJ, Thomas CB, Iwan A, **Alexander BH**, Kampa D, Bowen L, Doody MM, Jones IM. No Evidence for Differences in DNA Damage Assessed before and after a Cancer Diagnosis. *Cancer Epidemiology, Biomarkers & Prevention* 2008;17:990-994.
65. Bhatti P, Struewing JP, **Alexander BH**, Hauptmann M, Bowen L, Mateus-Pereira LH, Pineda MA, Simon SL, Weinstock RM, Rosenstein M, Stovall M, Preston DL, Linet MS, Doody MM, Sigurdson AJ. Polymorphisms in DNA repair genes, ionizing radiation exposure and risk of breast cancer in U.S. Radiologic technologists. *International Journal of Cancer* 2008;122:177-182.

66. Chodick G, Bekiroglu N, Hauptmann M, **Alexander BH**, Freedman DM, Doody MM, Cheung LC, Simon SL, Weinstock RM, Bouville A, Sigurdson AJ. Risk of Cataract after Exposure to Low Doses of Ionizing Radiation: A 20-Year Prospective Cohort Study among US Radiologic Technologists. *American Journal of Epidemiology* 2008;168:620-631.
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154. Delavar A, Freedman DM, Velazquez-Kronen R, Little MP, Kitahara CM, **Alexander BH**, Linet MS, Cahoon EK. Ultraviolet radiation and incidence of cataracts in a nationwide US cohort. *Ophthalmic Epidemiology* 2018;25:403-11.
155. Jansen RJ, **Alexander BH**, Hayes RB, Miller AB, Wacholder S, Church TR. A mathematical model of case-ascertainment bias: Applied to case-control studies nested within a randomized screening trial. *PLOS One* 2018;13:e0194608.
156. Kitahara CM, Preston DL, Neta G, Little MP, Doody MM, Simon SL, Sigurdson AJ, **Alexander BH**, Linet MS. Occupational radiation exposure and thyroid cancer incidence in a cohort of U.S. radiologic technologists, 1983-2013. *International Journal of Cancer* 2018.
157. Little MP, Kitahara CM, Cahoon EK, Bernier MO, Velazquez-Kronen R, Doody MM, Borrego D, Miller JS, **Alexander BH**, Simon SL, Preston DL, Hamada N, Linet MS, Meyer C. Occupational radiation exposure and risk of cataract incidence in a cohort of US radiologic technologists. *European Journal of Epidemiology* 2018.
158. Little MP, Kitahara CM, Cahoon EK, Bernier MO, Velazquez-Kronen R, Doody MM, Borrego D, Miller JS, **Alexander BH**, Simon SL, Preston DL, Meyer C, Linet MS, Hamada N. Occupational radiation exposure and glaucoma and macular degeneration in the US radiologic technologists. *Sci Rep* 2018;8:10481.
159. Little MP, Lim H, Friesen MC, Preston DL, Doody MM, Sigurdson AJ, Neta G, **Alexander BH**, Chang LA, Cahoon EK, Simon SL, Linet MS, Kitahara CM. Assessment of thyroid cancer risk associated with radiation dose from personal diagnostic examinations in a cohort study of US radiologic technologists, followed 1983-2014. *BMJ Open* 2018;8:e021536.
160. Perlman D, Mandel JH, Odo N, Ryan A, Lambert C, MacLehose RF, Ramachandran G, **Alexander BH**. Pleural abnormalities and exposure to elongate mineral particles in Minnesota iron ore (taconite) workers. *American Journal of Industrial Medicine* 2018;61:391-9.
161. Suarez-Lopez JR, Butcher CR, Gahagan S, Checkoway H, **Alexander BH**, Al-Delaimy WK. Acetylcholinesterase activity and time after a peak pesticide-use period among Ecuadorian children. *International Archives of Occupational & Environmental Health* 2018;91:175-84

162. Gallagher LG, Ilango S, Wundes A, Stobbe GA, Turk KW, Franklin GM, Linet MS, Freedman DM, **Alexander BH**, Checkoway H. Lifetime exposure to ultraviolet radiation and the risk of multiple sclerosis in the US radiologic technologists cohort study. *Multiple Sclerosis* 2019;25:1162-9.
163. Huynh T, Ramachandran G, Quick H, Hwang J, Raynor PC, **Alexander BH**, Mandel JH. Ambient Fine Aerosol Concentrations in Multiple Metrics in Taconite Mining Operations. *Annals of Work Exposures And Health* 2019;63:77-90.
164. *Peck ME, Jenpanich C, Amonsin A, Bunpapong N, Chanachai K, Somrongthong R, **Alexander BH**, Bender JB. Knowledge, Attitudes and Practices Associated with Brucellosis among Small-Scale Goat Farmers in Thailand. *Journal of Agromedicine* 2019;24:56-63.
165. Shao Y, Hwang J, **Alexander BH**, Mandel JH, MacLehose RF, Ramachandran G. Reconstructing historical exposures to elongate mineral particles (EMPs) in the taconite mining industry for 1955-2010. *Journal of Occupational & Environmental Hygiene* 2019;16:817-26.
166. Velazquez-Kronen R, Borrego D, Gilbert ES, Miller DL, Moysich KB, Freudenheim JL, Wactawski-Wende J, Cahoon EK, Little MP, Millen AE, Balter S, **Alexander BH**, Simon SL, Linet MS, Kitahara CM. Cataract risk in US radiologic technologists assisting with fluoroscopically guided interventional procedures: a retrospective cohort study. *Occupational & Environmental Medicine* 2019;76:317-25.
167. Odo NU, Mandel JH, **Alexander BH**, Perlman DM, MacLehose RF, Ramachandran G, Ryan AD, Shao Y. The impact of different approaches to exposure assessment on understanding non-malignant respiratory disease risk in taconite miners. *International Archives of Occupational & Environmental Health* 2020;93:77-85.
168. Huong LTT, Hanh TTT, Toan LQ, Trang DTH, Quynh NT, Anh NQ, Long TK, Fenwick S, Ha NT, **Alexander BH**. Training need assessment for a master training program in Environmental Health program in Vietnam. *Aims Public Health* 2020;7:197-212.
169. Linet MS, Little MP, Kitahara CM, Cahoon EK, Doody MM, Simon SL, **Alexander BH**, Preston DL. Occupational radiation and haematopoietic malignancy mortality in the retrospective cohort study of US radiologic technologists, 1983-2012. *Occupational & Environmental Medicine* 2020;77:822-31.
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171. Velazquez-Kronen R, Gilbert ES, Linet MS, Moysich KB, Freudenheim JL, Wactawski-Wende J, Simon SL, Cahoon EK, **Alexander BH**, Doody MM, Kitahara CM. Lung cancer mortality associated with protracted low-dose occupational radiation exposures and smoking behaviors in U.S. radiologic technologists, 1983-2012. *International Journal of Cancer* 2020;147:3130-8

172. Charlier D, Wilson M, Modderman C, Cortus E, Janni K, Peterson C, Schossow M, **Alexander BH**, Bender JB. Assessing Self-reported Occupational Hazards of Manure Applicators in the Upper Midwest. *J Agromedicine* 2022;15:1-9.
173. Le VTH, Berman JD, Tran QA, Wattenberg EV, **Alexander BH**. The Effects of Daily Temperature on Crime Events in Urban Hanoi, Vietnam Using Seven Years of Data (2013-2019). *International Journal of Environmental Research & Public Health* 2022;19:26.
174. Liu D, Linet MS, Albert PS, Landgren AM, Kitahara CM, Iwan A, Clerkin C, Kohler B, **Alexander BH**, Penberthy L. Cancer Incidence Ascertainment by U.S. Population-Based Cancer Registries Versus Self-Report and Death Certificates in the Nationwide U.S. Radiologic Technologists Cohort. *American Journal of Epidemiology* 2022;22.
175. Shao Y, Hwang J, MacLehose RF, **Alexander BH**, Mandel JH, Raynor PC, Ramachandran G. Reconstructing Historical Exposures to Respirable Dust and Respirable Silica in the Taconite Mining Industry for 1955-2010. *Ann Work Expo Health* 2022;66:459-71.
176. Le VTH, Berman JD, Wattenberg EV, Ngo TV, Tran QA, **Alexander BH**. Temperature-related emergency injury visits in Hanoi, Vietnam. *Injury Prevention* 2024;30:33-8.
177. Rau A, Tarr GAM, Baldomero AK, Wendt CH, Alexander BH, Berman JD. Heat and Cold Wave-Related Mortality Risk among United States Veterans with Chronic Obstructive Pulmonary Disease: A Case-Crossover Study. *Environmental Health Perspectives* 2024;132:27004
178. **Alexander BH**, Ryan A, Church TR, Kim H, Olsen GW, Logan PW. Mortality and cancer incidence in perfluorooctanesulfonyl fluoride production workers. *American Journal of Industrial Medicine* 2024;67:321-33

BOOK CHAPTERS

1. Rivara FP, **Alexander BH**. Occupational Injuries. In: Textbook of Clinical Occupational and Environmental Medicine. Rosenstock L and Cullen MR, eds. WB Saunders Co., Philadelphia, 1994.
2. **Alexander BH**, Rivara FP. Occupational Injuries. In: Textbook of Clinical Occupational and Environmental Medicine, 2nd Edition. Rosenstock L, Cullen MR, Brodtkin, CA, and Redlich CA eds. Elsevier Saunders. Philadelphia, 2004.

PUBLICALLY AVAILABLE REPORTS

1. **Alexander, BH**. Mortality Study of Workers Employed at the 3M Cottage Grove Facility. Report to 3M company. Minneapolis, MN. University of Minnesota, U.S. EPA Docket AR-226-1030a-018 Washington DC. U.S. Environmental Protection Agency.2001

2. **Alexander, BH.** Mortality Study of Workers Employed at the 3M Decatur Facility. Report to 3M company. Minneapolis, MN. University of Minnesota, U.S. EPA Docket AR-226-1030a-018 Washington DC. U.S. Environmental Protection Agency.2001
3. **Alexander BH.** 2004. Bladder Cancer in Perfluorooctanesulfonyl fluoride manufacturing workers. Minneapolis: University of Minnesota. U.S. EPA Docket AR-226-1030a-018 Washington DC. U.S. Environmental Protection Agency 2004
4. **Alexander BH,** Grice MM Self-Reported Medical Conditions in Perfluorooctanesulfonyl Fluoride Manufacturing Workers. Minneapolis: University of Minnesota. U.S. EPA Docket AR-226-1030a-018 Washington DC. U.S. Environmental Protection Agency 2004

LETTERS

1. Davies PR, **Alexander BH**, Bender JB, Deen J, Dewey CE, Funk JA, Munoz-Zanzi CA, O'Sullivan MG, Singer RS, Sreevatsan S, Stark KD, Stevenson MA. Livestock density as risk factor for livestock-associated methicillin-resistant *Staphylococcus aureus*, The Netherlands. *Emerging Infectious Diseases* 2013;19:1551-1552.
2. Ramachandran G, Hwang J, Raynor PC, **Alexander BH**, Mandel JH. Letter to the editor. *Journal of Occupational and Environmental Hygiene* 2015;12:D88-9.
3. Mandel JH, Odo NU, **Alexander BH.** Potential Problems with Determining Elongate Mineral Particle (EMP) Potency (Comments on article entitled, "A Comparison of Asbestos Fiber Potency and Elongate Mineral Particle (EMP) Potency for Mesothelioma in Humans"). *Toxicology and Applied Pharmacology* 2019;370:131-2.

SELECTED PRESENTATIONS

1. **Alexander BH**, Franklin GM, Wolf ME. Sexual assault of women at work in Washington State, 1980-1989. Annual Meeting of the American Public Health Association, October, 1993. San Francisco, CA.
2. **Alexander BH**, Checkoway H, Faustman EM, van Netten C, Muller CH, Ewers TG. The effects of lead exposure on male reproductive health indicators among lead smelter workers. Tenth International Symposium Epidemiology in Occupational Health, September 1994. Como, Italy.
3. **Alexander BH**, Checkoway H, van Netten C, Kaufman JD, Mueller BA, Vaughan TL, Faustman EM. Paternal occupational lead exposure and pregnancy outcome. Eleventh International Symposium Epidemiology in Occupational Health, September 1995. Noordwijkerhout, The Netherlands.
4. **Alexander BH**, Checkoway H, Faustman EM, van Netten C, Muller CH, Ewers TG. The relationship of blood and semen lead concentrations to semen quality parameters among lead smelter workers. Society for Epidemiologic Research 29th Annual Meeting, June 1996. Boston, MA.
5. **Alexander BH** Environmental Epidemiology Workshops.Sponsored by Idaho Department of Health and Welfare, Bureau of Environmental Health and Safety.

Aug 12-13, 1997, March 12, 1998.

6. **Alexander BH** Child Health and Safety Short Course: Farm Health and Safety: A Focus on Prevention. Northwest Center for Occupational Health and Safety/Pacific Northwest Agriculture Safety and Health Center Department of Environmental Health, University of Washington. May 21, 1998.
7. **Alexander B.H.**, Kiefer, MC, Rivara FP. Case control studies of agriculture related injuries in children. National Occupational Injury Research Symposium. October 17-19, 2000. Pittsburgh, PA
8. **Alexander BH**, Baker BA, Mandel JS, Chapman P, Honeycutt R, Jones J. Acquavella JF. Farm Family Exposure Study. International Society of Exposure Analysis. October 24-27, 2000. Monterey CA.
9. **Alexander BH**, Baker BA, Mandel JS, Chapman P, Honeycutt R, Jones J. Acquavella JF. Farm Family Farm Family Exposure Study. Agriculture Health Study Annual Meeting. April 8, 2001. Chapel Hill, NC.
10. **Alexander BH**, Baker BA, Mandel JS, Chapman P, Honeycutt R, Jones J. Acquavella JF. Farm Family Farm Family Exposure Study, Preliminary Glyphosate Results. International Society of Exposure Analysis. November 4-8, 2001. Charleston, South Carolina.
11. **Alexander BH**, Olsen GW, Burris JM. Mortality of Workers at a Fluorochemical Production Facility. Epidemiology in Occupational Health Symposium, International Commission on Occupational Health. August 20-22, 2001. Copenhagen, Denmark.
12. **Alexander BH** Use Of Surveillance Data In Occupational And Environmental Epidemiology. Short Course for presentation to visiting scientists from the Republic of Georgia. University of Minnesota, February 15, 2001.
13. **Alexander BH** Surveillance Data in Epidemiology and Risk Assessment. International Public Health Topics Course. University of Minnesota, May 22, 2001.
14. **Alexander BH** Epidemiology and Surveillance for Health Promotion. Public Health Workshop. National Center for Disease Control, March 18-23, 2002, Tbilisi, Republic of Georgia.
15. **Alexander BH** Pesticide Exposure in Farm Families. 8th Watershed Heroes Core 4 Conference and National Eco Team Competition. St. Peter, MN, June 18-20, 2003.
16. **Alexander BH**, Mandel JS, Baker BA, Jurek AM, Chapman P, Burns C. Acquavella JF. Farm Family Exposure Study: Biomonitoring for Chlorpyrifos and 2,4-D in Farm Families. EPICOH Congress on Occupational Health, and International Congress on Occupation Cancer and Reproduction. September 11-13, 2002. Barcelona, Spain.
17. **Alexander BH**, Zabel EW, Mongin SJ, Sigurdson AJ, Doody MM, Linet MS, Freedman DM, Mabuchi K, Ron E. Thyroid Cancer Incidence and Employment as a Radiologic Technologist. EPICOH Congress on Occupational Health, and International Congress on Occupation Cancer and Reproduction. September 11-13, 2002. Barcelona, Spain.

18. **Alexander BH.** Rappoteur: Epidemiology: Childhood cancer, errors in measurement, and susceptibility, International Symposium on Agriculture Exposures and Cancer, November 19-22, 2002, Greens College. Oxford, England.
19. **Alexander BH,** GW Olsen, JM Burris, JH Mandel, JS Mandel. Mortality Of Employees Of An Ammonium Perfluorooctanoate Production Facility. 17th Symposium Epidemiology in Occupational Health. Melbourne, Australia October 13-16, 2004.
20. **Alexander BH** Bladder Cancer and Perfluorooctane Sulfonate (PFOS). Department of Environmental and Occupational Health Sciences, University of Washington, February 2, 2004.
21. **Alexander BH** Farm Family Exposure Study: Chlorpyrifos and 2,4-D Exposure to Farm Families. American Association of Pesticide Control Officials Annual Meeting. Arlington VA, March 9, 2004.
22. **Alexander BH** Bladder Cancer and Perfluorooctane Sulfonate (PFOS). Department of Environmental and Radiological Health Sciences, Colorado State University, March 29, 2004
23. **Alexander BH** Farm Family Exposure Study: Chlorpyrifos and 2,4-D Exposure to Farm Families. Minnesota Department of Agriculture, Saint Paul, MN October 4, 2004
24. **Alexander BH** Agriculture Related Injury in and Injury Prevention Paradigm. Progress and Lack of Progress. Harborview Injury Prevention and Research Center, Seattle, WA. October 5, 2004.
25. **Alexander BH,** Ramachandran G, Hoffbeck R, Rice C. Effect of Non-Silica Respirable Particulate Matter on Development of Silicosis. American Industrial Hygiene Association Annual Conference, Anaheim, California May 21-26, 2005.
26. **Alexander, BH,** Olsen GW. Bladder cancer in perfluorooctanesulfonyl fluoride manufacturing workers. 18th Symposium Epidemiology in Occupational Health. Bergen Norway, September 11-14, 2005
27. **Alexander BH,** Ramachandran G, Hoffbeck R, Rice C. Silicosis and lung burden from respirable silica and non-silica exposure. North American Epidemiology Congress, Seattle, Washington. June 21-24, 2006.
28. **Alexander BH,** Church TR, Reding DJ. Farming exposure and early-onset prostate cancer 19th Symposium Epidemiology in Occupational Health., Banff Canada October 10-12, 2007.
29. **Alexander BH** Epidemiology of Occupational Ionizing Radiation Exposure in the Medical Field: Lessons from the United States Respiratory Technologists Cohort Study. Michigan Society of Radiologic Technologists, Midland MI, September 14, 2007
30. **Alexander BH** The United States Radiologic Technologists Cohort Study. Radiological Society of America Annual Meeting, Chicago, IL, December 1, 2008
31. **Alexander BH** Farm Family Exposure Study: Biomonitoring and Exposure assessment in Agricultural Populations, Society of Toxicology 48th Annual Meeting, Baltimore, MD, March 17, 2009.

32. **Alexander BH**, Johnson J, Raleigh KK, Mandel JH, Messing RB, Ramachandran G, Adgate JL, Williams A. Pleural Abnormalities and Community Exposure to Asbestos Contaminated Vermiculite. International Society of Environmental Epidemiology 2009, Dublin. August 26-30, 2009.
33. **Alexander BH**, Gerberich SG, Ryan AD, Renier CM, Church TR, Masten A, McGovern PM, Mongin SJ. Short and Long-Term Consequences of Agricultural Injuries among Children/Youth and Impact on Agricultural Operations: A Case-Control Study. 10th World Conference on Injury Prevention and Safety Promotion, London, September 21-24, 2010.
34. **Alexander BH**, Gerberich SG, Ryan AD, Renier CM, Church TR, Masten A, McGovern PM, Mongin SJ. Short- and Long-Term Lost Work Time and Household Income Changes Associated with Injuries among Children on Agricultural Operations 3rd North American Congress of Epidemiology, Montreal June 21-24, 2011.
35. **Alexander BH**. One Health, Occupational Health and the Upper Midwest Agriculture Safety and Health Center. Midwest Regional Agricultural Safety and Health Meeting, Cedar Rapids Iowa, November 14, 2013
36. **Alexander BH**. Cancer Incidence in Ammonium Perfluorooctanoate Production Workers. Fluoros 2015. Golden, CO July 15, 2015
37. **Alexander BH**. Taconite Worker Health Study. Asbestos-like Mineral Fibers in the Upper Midwest: Implications for Mining and Health Workshop. Duluth Minnesota. October 7, 2015
38. **Alexander BH**. Injuries and illness in Swine Workers and Veterinarians. American Association of Swine Veterinarians Annual Meeting, New Orleans, LA, February 28, 2016.
39. **Alexander BH**. Injury Prevention in Animal Agriculture. Veterinary Public Health Residency, University of Minnesota College of Veterinary Medicine, April 1, 2016
40. **Alexander BH**, Bender JB, Murphy D. Adapting the Haddon Matrix to Incorporate One Health in Occupational Health in Animal Agriculture. 25th EPICOH 2017 Barcelona Spain, September 5-8, 2017
41. **Alexander BH**. Mesothelioma and Taconite Mining Exposures: A Persistent Question. 20th Annual Whiteside Memorial Lecture, University of Minnesota Duluth Medical School, November 8, 2018
42. **Alexander BH**. One Health and Occupational Health. 1st Annual Forum on Environmental and Occupational Health, University of Philippines, Manila, November 28, 2018
43. **Alexander BH**. Working and Living: The Environment and One Health. 4th International Conference on One Medicine One Science Chiang Mai, Thailand, February 11-14, 2019

COURSES TAUGHT

1. Environmental Health, ERHS 220 Primary Instructor 2020
2. Working in Global Health, PubH 6131, Co-Instructor 2016-2019
3. Global Public Health and the Environment, PubH 3107 Primary Instructor 2012-19
4. Global Health Seminar, PubH 6133. Primary Instructor, 2006-2014
5. Environmental and Occupational Health Research Seminar, PubH 8120, Co-Instructor 2009-2019
6. Occupational and Environmental Epidemiology, PubH 6140, Primary Instructor 2000-2004, Guest Lecturer 2005-2018
7. Occupational Injury Epidemiology and Control Program Research Seminar, PubH 8120, Co-instructor. 2000-2009
8. Doctoral Seminar in Observational Inference, PubH 8140 Co-instructor. 2002-2006

STUDENT ADVISING

Student	Degree	Role	Year Finished
Pamela Chapman	MPH	Committee Member	1999
Mathew Finke	MPH	Committee Member	2000
Renee Mijal	MPH	Academic and Project Advisor	2001
Suzanne Bakdash	MPH	Committee Member	2001
Erik Zabel,	MPH	Project Advisor	2001
Stephanie Waisenau	MPH	Project Advisor	2001
Wendy Brunner	MPH	Project Advisor	2001
Kiri Ness	MPH	Committee Member	2002
Erin Wickliff,	MPH	Academic and Project Advisor	2003
Javariah Ashgar	MPH	Academic Advisor	2003
Erin Hagen	MPH	Committee Member	2003
Karen Hilts	MPH	Committee Member	2003
Elizabeth Hatcher	MPH	Academic Advisor	2004
Sarah Harnden	MPH	Academic and Project Advisor	2004
Tanya Maslak	MPH	Academic Advisor	2004
Penny Bartz	MPH	Academic Advisor	2005
Bilal Salut	MPH	Academic and Project Advisor	2005
Jason Grengs	MPH	Academic and Project Advisor	2005
Jessica Lundin	MPH	Project Advisor	2005
Genelle Lamont	MPH	Academic and Project Advisor	2012
Scott Sibbel	MPH	Project Advisor	2007
Mia Jewell	MPH	Academic and Project Advisor	2008
Owen Hanley	MPH	Academic and Project Advisor	2008
David McNamara	MPH	Academic and Project Advisor	2008
Thuy Doan	MPH	Academic and Project Advisor	2009
Carrie Klumb	MPH	Academic Advisor	2009
Wei Wang	MPH	Academic and Project Advisor	2009
Kristina Vick	MPH	Academic Advisor	2010
Elizabeth Allen	MPH	Academic and Project Advisor	2011
Craig Meyer	MPH	Academic Advisor	2010
Kathleen Slingerland	MPH	Academic Advisor	2011
Elizabeth Narten	MPH	Academic Advisor	2011
Ahmet Baysal	MPH	Academic Advisor	2017
Roshani Dahal	MPH	Academic and Project Advisor	2012
Therese Genis	MPH	Academic and Project Advisor	2012
Katherine Waddick,	MPH	Academic Advisor	Active
Emily Banerjee	MPH	Academic and Project Advisor	2011
Tim Quan	MPH	Academic and Project Advisor	Active
Sneha Raghaven	MPH	Academic Advisor	2016
Autumn Durfey	MPH	Academic Advisor	Active
James Jansen	MPH	Academic Advisor	2013

Student	Degree	Role	Year Finished
Medora Witwer	MPH	Academic Advisor	2015
Katrina DeVore	MPH	Academic and Project	2014
Teaona Hasbrouck	MPH	Academic and Project	2014
Shannon Engleman	MPH	Academic and Project	2014
Cheryl Haines	MPH	Project Advisor	Active
Samantha Slimmer	MPH	Academic Advisor	2016
Jenna Rasmussen	MPH	Academic and Project	2016
Hiwote Bekele	MPH	Academic and Project	2016
Lauren Biglake	MPH	Academic Advisor	Active
Jacqueline Cassman	MPH	Academic Advisor	Active
Yuko Ekalongo	MPH	Academic Advisor	Active
Teresa M. Kaelin	MS	Committee Member	2001
Srismitha Modem	MS	Academic and Project	2003
Sumati Dhawan	MS	Committee Member	2004
Rick Jansen	MS	Academic Advisor	2006
Zoya Gesina	MS	Academic and Project	2009
Humairat Rahman	MS	Academic Advisor	2011
Austin Bell	MS	Academic Advisor	2015
Sioban Duggan	PhD	Committee Member	2002
Mary Findorff	PhD	Committee Member	2003
Renee Mijal	PhD	Committee Member	2005
Kathleen Ferguson Carlson	PhD	Committee Member	2006
Muree Larsen-Bright	PhD	Committee Member	2006
Deanna Scher	PhD	Committee Member	2007
Mira Grice	PhD	Committee Member	2007
Denise Feda	PhD	Co-Advisor	2008
Kimberly J. Johnson	PhD	Committee Member	2007
Glenn M. Sturchio	PhD	Committee Member	2008
Quintin Williams	PhD	Advisor	2008
Starr Sage Kelley	PhD	Committee Member	2008
Elizabeth A. Haberman	PhD	Committee Member	2008
Ji Young Park	PhD	Committee Member	2009
Katherine Raleigh	PhD	Advisor	2013
Katherine Schofield	PhD	Advisor	2012
Christine Lambert	MD/PhD	Advisor	2013
Leslie Nordgren	PhD	Co-Advisor	2009
Deborah Merchant-Langner	PhD	Committee Member	2009
Perry Logan	PhD	Committee Member	2010
Evette Pinder	PhD	Committee Member	2009
Rick Jansen	PhD	Committee Member	2009
Jose R. Suarez	PhD	Committee Member	2012
Tamara Schulte	PhD	Committee Member	2013

STUDENT ADVISING (continued)

Student	Degree	Role	Year Finished
Jooyeon Hwang	PhD	Committee Member	2013
Elizabeth Allen	PhD	Advisor	2014
Cory Risch	PhD	Committee Member	2013
Tran Huynh	PhD	Committee Member	2014
Anna Briggs	PhD	Committee Member	2013
Adrienne Landsteiner	PhD	Committee Member	2014
Christopher Drucker	PhD	Committee Member	2013
Chia Wei	PhD	Committee Member	2014
Megan Peck	PhD	Advisor	2017
Craig Meyer	PhD	Committee Member	2016
Erik Hansen	PhD	Committee Member	2016
Catherine Graeve	PhD	Committee Member	2016
Farhiya Farah	PhD	Committee Member	2017
Yuan Shao	PhD	Co-Advisor	2018
Evan Sorely	PhD	Advisor	2018
Gabriela Bustamante	PhD	Advisor	2019
Shannon Sullivan	PhD	Committee Member	2019
Ashley Hernandez	PhD	Advisor	2023
Kara Durski	PhD	Co-Advisor	2021
Scott Vial	PhD	Committee Member	2019
Huong Le	PhD	Advisor	2022
Ryan Gavin	PhD	Advisor	Active
Mai Pham	PhD	Co-Advisor	Active

FUNDING HISTORY

Current

1. Principal Investigator U.S. Radiologic Technologists Cohort. Cancer and Other Disease Risks in U.S. Radiologic Technologist: Cancer Incidence Update and Support for Data Analysis and Interpretation. HHSN61201400010I, NCI 09/19/2019 - 09/18/202. The This project will continue to develop a data resource by linking the USRT Cohort with state cancer registries and evaluate the suitability of the pooled cancer registry for epidemiologic research. The project will take advantage of the long history of cancer data collection form the USRT cohorts which is one of very few nationwide cohorts. \$196,467
2. Principal Investigator. Assessing and Preventing Injuries in Animal Agriculture. Project of the Upper Midwest Agricultural Safety and Health (UMASH) Center U54OH010170, NIOSH 09/30/2017 - 09/29/2022. This project will aggregating and analyze data from pork and dairy producers and worker compensation carriers to characterize the frequency, cost, and burden of injury in animal agriculture and develop approaches to prevent and control these injuries. \$631,180
3. Principal Investigator, Mortality and Cancer Incidence in PFOS Exposed Workers. 3M 0/01/2016 - 06/30/2021. The objective of this study is to evaluate potential health risks associated with occupational exposure to perfluorooctanesulfonyl fluoride (POSF). The study will evaluate the incidence of cancer in a cohort of workers employed at a 3M facility in Decatur Alabama that manufactured POSF from the early 1960s through 2002. The study will link the cohort to state cancer registries to determine the incidence of cancer. \$403,825

Past

1. Principal Investigator U.S. Radiologic Technologists Cohort. Cancer and Other Disease Risks in U.S. Radiologic Technologist: Cancer Incidence Update and Support for Data Analysis and Interpretation. HHSN261201800606P, NCI 08/30/2018 - 11/29/2019. The This project will continue to develop a data resource by linking the USRT Cohort with state cancer registries and evaluate the suitability of the pooled cancer registry for epidemiologic research. The project will take advantage of the long history of cancer data collection form the USRT cohorts which is one of very few nationwide cohorts. \$150,000
2. Principal Investigator/Center Director. Upper Midwest Agricultural Safety and Health (UMASH) Center U54OH010170, NIOSH 09/30/2017 - 09/29/2021. This Center of Excellence in Agricultural Disease and Injury Research, Education, and Prevention builds formal collaborations among five prominent institutions; The University of Minnesota School of Public Health, University of Minnesota College of Veterinary Medicine, the National Farm Medicine Center of the Marshfield Clinic, the Minnesota Department of Health, and the University of Wisconsin. These institutions bring unique and complimentary resources to address existing and emerging occupational health and safety issues in agriculture, with an emphasis on animal agriculture. \$8,595,921

3. Co-Investigator. Midwest Center for Occupational Health and Safety (MCOHS)T42OH008434, NIOSH Gerberich (PI) 07/01/2005 - 06/30/2020. The major goals of this center are to provide academic and research training, continuing education and outreach relevant to occupational safety and health, involving a major multidisciplinary collaborative effort: Role: Program Director, Occupational and Environmental Epidemiology Training Program, Academic Training Co-Director Faculty, Occupational Injury Prevention and Research Training program. \$8,692,705
4. Co-Investigator. AID-OAA-A-15-00014, USAID. Pelican (PI), 11/17/2014 - 11/16/2019. One Health Workforce (OHW) Project. The University of Minnesota in partnership with Tufts University, South East Asia One Health University Network (SEAOHUN) and One Health Central and East Africa (OHCEA) are developing university capacity in South East Asia and Eastern and Central Africa to train and educate the current and future health workforce to address global emerging pandemic threats. Role: Technical Lead for Environmental Health. \$67,000,000 ceiling.
5. Principal Investigator. Cancer and Other Disease Risks in Nuclear Medicine Technologists: A Feasibility Study HHSN261201500257P, NCI 08/28/2015 - 02/27/2017. To assess radiation-related cancer and other disease risks in nuclear medicine technologists, a new cohort study of more recently trained and certified nuclear medicine technologists who specialize and work full time conducting nuclear medicine procedures is under consideration. The purpose of the currently proposed study is to assess the feasibility of conducting a large cohort study of technologists certified in nuclear medicine after 1980.
6. Principal Investigator Cancer and Other Disease Risks in U S Radiologic Technologists: Virtual Pooled Cancer Registry Follow-up. HHSN261201600412P, NCI 07/01/2016 - 06/30/2018. The Goal of this project is to link the USRT with state cancer registries participating in pooled cancer registries being developed by the North American Association of Central Cancer Registries (NAACCR) as a mechanism to evaluate the suitability of the pooled cancer registry for epidemiologic research. The project will take advantage of the long history of cancer data collection form the USRT cohorts which is one of very few nationwide cohorts. \$150,000
7. Principal Investigator. Assessment of Injuries in Pork Production Facilities. 14-289, National Pork Board. 12/15/2014 - 06/01/2017. The objective of this project is to engage partners in the pork production industry to examine available data resources for characterizing work-related injuries and make recommendations to the National Pork Board on options to improve injury control nationwide. \$139,651
8. Co-Investigator (G. Ramachandran, PI) Respiratory Diseases and Exposure To Elongated Mineral Particles in Taconite Ore CDC/NIOSH 1R01OH010418-01A1. 5/1/2014-8/31/2017 (FY 14). This project will characterize the range or elongate mineral particles from taconite mining and processing by size and evaluate the risk of mesothelioma, lung cancer, and non-malignant respiratory disease in a cohort of taconite workers with respect to the EMP exposures. \$1,080,921
9. Principle Investigator/Center Director Upper Midwest Agricultural Safety and Health Center. 1U54OH010170-01 9/30/2011-9/29/2016. This Center of Excellence in Agricultural Disease and Injury Research, Education, and Prevention builds formal

collaborations among five prominent institutions; The University of Minnesota School of Public Health, University of Minnesota College of Veterinary Medicine, the National Farm Medicine Center of the Marshfield Clinic, the Minnesota Department of Health, and the University of Wisconsin. These institutions bring unique and complimentary resources to address existing and emerging occupational health and safety issues in agriculture, with an emphasis on animal agriculture. \$8,568,680.

10. Principal Investigator. Support for Epidemiologic Studies of Cancer Risk in Radiologic Technologists. National Cancer Institute 9/30/2010-9/29/2015. This contract will support of the US Radiologic Technologists Cohort Study. This ongoing study will conduct continued follow-up of the cohort, administer a series of surveys, collect data for studies of biological markers and radiation exposure, and conduct a case-control study of basal cell carcinoma. \$2,599,886
11. Co-Investigator, Midwest Center for Occupational Safety and Health, Director Occupational and Environmental Epidemiology program, Co-Director. Occupational Injury Prevention Research Training Program Education and Research Center. CDC/NIOSH T42 OH008434 (S. Gerberich, PI) 07/01/2010 - 06/30/2015. The Midwest Center for Occupational Health and Safety provides training and outreach for health and safety professionals in the Midwest. The Occupational Injury Prevention and Research Training Program and is specifically designed to train doctoral level injury epidemiology and prevention specialists. The Occupational and Environmental Epidemiology Program provides a multidisciplinary approach to doctoral and masters level training in occupational and environmental epidemiology. \$1,733,450 (FY 12)
12. Co-Investigator (H Checkoway, PI) Lifetime UVB Exposure, Vitamin D, and Multiple Sclerosis in a Cohort of U.S. Radiologic Technologists. National Multiple Sclerosis Society. April 2013-March 2015. This study will investigate the relationship between ambient UV levels and risk of multiple sclerosis in the US. Radiologic Technologists Cohort. \$158,165 (sub-award)
13. Technical Advisor (J Deen, PI) RESPOND United States Agency for International Development 10/1/2009-9/30/2014. This cooperative agreement is one in a 5 part approach to develop a global program to improve the capacity of countries in high risk areas to respond to outbreaks of emergent zoonotic disease that pose a serious threat to human health. The explicit objective of the five programs is to “pre-empt or combat, at their source, the first stages of the emergence of zoonotic disease that pose a significant threat to public health \$8,669,044)
14. Principal Investigator. Cancer Incidence in 3M Chemical Workers. 3M Company. 08/01/2008-12/31/2013. This is evaluating the incidence of cancer and mortality associated with occupational exposure to ammonium perfluorooctanoate (APFO). Detailed exposure reconstructions will estimate cumulative exposure and age specific exposures that account for elimination of this persistent organic pollutant. \$488,803
15. Co-Investigator. Minnesota Taconite Workers Health Study. State of Minnesota 07/01/2008 – 12/31/2013 (J. Mandel, PI). This project consists of a cohort mortality study of taconite workers, a cancer incidence study of these workers and a respiratory

- health screening study of current and former taconite workers and spouses. All three of these components will be supplemented by information obtained through a comprehensive occupational exposure assessment. \$4,900,000
16. Co-Investigator Effect of Indoor Air Pollution on women and children in India (G. Ramachandran PI). Indian Council for Medical Research/CDC. This project is a collaborative effort with the Indian National Institute of Occupational Health. The goals of this study are to examine the effects of indoor air pollution from cooking fuel on the respiratory health of women and children living in urban slums. This project will specifically focus on the impact of ultrafine particles from kerosene compared to liquefied natural gas.
 17. Co-Investigator: Stove change out: A win-win-win for development, environment and health (J Marshall PI) Institute on the Environment. This project will conduct a neighborhood-scale stove change-out program to reduce emissions of locally-and globally important pollutants. Measures of air pollution and health impacts of the change out will be measured while exploring opportunities to create a financially sustainable program.
 18. Co-Investigator. Consequences of Injuries Among Children Residing on Agricultural Operations CDC/NIOSH 1R01-OH008258-01A1 07/01/06-06/30/12. (S. Gerberich PI) The purpose of this study was to identify the short- and long-term physical, psychosocial, and economic consequences of injuries that occur among children and youths living in agricultural operation households and determine the impact of this problem, not only on the individual and family but also on the overall agricultural operation.
 19. Co-Principal Investigator, Spring House Worker Health Study. Rohm and Haas Company/Dow Chemical Company 5/01/08-12/30/10. This study evaluated the mortality experience of workers at the Rohm and Haas specialty chemical research and development plant. A primary aim of the study is to develop models for estimating exposure in research and development occupations where job tasks and chemical exposures vary over time. \$773,954
 20. Principal Investigator, New Strategies for Follow-Up and Detailed Study of Radiation, Genetic Factors, and Risk of Cancer and Benign High Risk Conditions. N01-CP-31018 National Cancer Institute. 8/15/03-09/31/10. This study of a cohort of 146,000 registered radiologic technologists will examine the risks associated with chronic low-level occupational radiation exposure and cancer, genetic factors that may modify these risks, and whether benign conditions contribute to cancer risk in this population. \$3,356,607
 21. Principal Investigator, Respiratory Health Effects of Community Asbestos Exposure. R01 TS000014 Centers for Disease Control and Prevention, Agency for Toxic Substances and Disease Registry. 9/30/05-09/29/09. This study will evaluate potential respiratory health effects from community asbestos exposure due to asbestos

contaminated vermiculite ore that was processed at a plant in Minneapolis, MN.
\$1,133,303

22. Co-Investigator. Consequences of Injuries Among Children Residing on Agricultural Operations CDC/NIOSH 1R01-OH008258-01A1 07/01/06-06/30/11. (S. Gerberich PI) The purpose of this effort was to identify the short- and long-term physical, psychosocial, and economic consequences of injuries that occur among children and youths living in agricultural operation households and determine the impact of this problem, not only on the individual and family but also on the overall agricultural operation.
23. Co-Investigator, Co-Director. Occupational Injury Prevention Research Training Program Education and Research Center. CDC/NIOSH 2T42OH008434-03 (S. Gerberich PI) 07/01/06 - 06/30/10. This program is part of the Midwest Center for Occupational Health and Safety and is specifically designed to train doctoral level injury epidemiology and prevention specialists
24. Principal Investigator, USRT Cohort UV Exposure Assessment Pilot Study. 04/01/06-08/31/06. The goals of this study were to develop methods for estimating lifetime ultraviolet radiation using data from the Total Ozone Monitoring Spectrophotometer satellite system and geographic information systems for the USRT cohort study.
\$12,523
25. Principal Investigator, Prairie Island Health Study, Prairie Island Indian Community. 01/01/2005 - 12/01/2005 The goals of this project are to identify community-based health concerns and determine feasibility of conducting population based public health research or prevention efforts in the Prairie Island Indian Community. \$113,459
26. Co-Investigator. Human-Centered Interventions Toward Zero Deaths in Rural Minnesota: Psychological Factors, Driver Risk-taking, and Acceptable Interventions. Center for Transportation Studies University of Minnesota 04/01/2005 - 12/31/2006 (N. Ward PI) The major goals are to identify the relation between driver behaviors and attitudes toward safety and the rural versus urban crash rates in order to determine relevant interventions.
27. Principal Investigator, Farm Family Exposure Study. Farm Family Exposure Task Force. 3/1/00-11/31/04. Assessment of peri-application pesticide exposure in farm families and the evaluation of surrogate measures of pesticide exposure as applied in epidemiologic studies. \$383,411
28. Principal Investigator, Morbidity Study of employees of the 3M Decatur Plant. 3M Corporation; 02/01/02-06/30/04. Evaluate cancer and other morbidity associated with employment in a plant that manufactured perfluorooctanesulfonyl fluoride based chemical products. \$174,987
29. Co-Investigator, Molecular Epidemiology of Prostate Carcinogenesis. National Cancer Institute R01-CA-74103; 7/1/99-6/30/04. (T.R. Church, PhD, PI). This case-control study of prostate cancer will evaluate the risk of prostate cancer in relation to occupational exposures, with particular reference to agriculture exposures. The patients and compare their health outcomes to a control group of healthy adults.
\$2,861,655

30. Co-Investigator, Agricultural Injury Surveillance: Regional Rural Injury Study II (RRIS II). National Institutes for Occupational Safety and Health-R01-OH04270; 09/29/00-09/28/04. (S.G. Gerberich, PhD PI). The goals of the RRIS II are to better understand the burden and determinants of injuries occurring to children and adolescents living on farms in a five state region. \$971,316
31. Co-Investigator, Retrospective Assessment of Mixed Chemical Exposures. NIH-NCI 1R21-CA94732. 07/01/2001-06/30/04. (G. Ramachandran, PhD, PI). The goals of this study are to develop methods for retrospective exposure reconstruction of mixed exposures, nickel, silica, diesel exhaust, for occupational epidemiology studies. \$367,246
32. Co-Investigator, Silica Exposure & Silicosis: Effect of Mixed Exposures. NIOSH R01-OH07429-01; 09/30/01-06/30/04. (G. Ramachandran, PhD, PI). Improve estimates of mixed exposures to silica and other particulates accounting for particle retention and clearance using a Bayesian framework. \$346,229
33. Principal Investigator (07/01/99-08/14/03) Cancer Risk in X-Ray Technologists. National Cancer Institute- N01 CP 51016; 8/15/95-8/14/03. Follow-up on a cohort of 146,000 radiologic technologists to determine cancer risks (primarily breast, lung, thyroid and leukemia) associated with ionizing radiation.
34. Principal Investigator, Dietary Risk Factors in Prostate Carcinogenesis U of M Cancer Center, NIH Prime; 06/01/2002 - 05/31/2003. . Dietary assessment using a food frequency questionnaire for an ongoing case-control study of prostate cancer in Minnesota.
35. Principal Investigator, Benign Breast Tumors and Cancer Risk in X-Ray Technologists NIH: NCI NIH/PO# 263-MQ116080; 09/15/2001 - 09/14/2002. This is a sub-study of the cancer risk in radiologic technologists that is investigating the role of benign breast tumors and breast cancer risk in women occupationally exposed to ionizing radiation.
36. Co-Investigator, Etiology and Consequences of Injuries Among Children in Farm Households: A Regional Rural Injury Study. National Institutes for Occupational Safety and Health-R01 CCR514375-02. 09/29/98-09/28/02. (S.G. Gerberich, PhD PI). The major goals of this project are to identify the etiology and consequences of injuries among children in farm households within a five state region.
37. Principal Investigator, Analysis of Thyroid Cancer Risk and Selection Bias in the U.S. Radiologic Technologists Cohort. National Cancer Institute. PO263-MQ-015934; 10/01/00-06/30/01. This study will analyze the risk of thyroid cancer in relation to employment history as a radiologic technologist and evaluate determinants for selection bias in the USRT cohort study.
38. Principal Investigator, Childhood Injuries in Washington Agriculture. National Institute for Occupational Safety and Health- R01CCR516767; 09/30/97-09/29/01. The purpose of this study was to identify determinants of agriculture related injury in children in the Yakima Valley, WA, and to evaluate mechanisms for agriculture injury surveillance.
39. Principal Investigator, Updated Mortality Study of 3M Cottage Grove Plant. 3M Corporation; 1/1/97-12/31/01. Update of previous mortality study of perfluorooctanoic acid exposed workers at a 3M plant in Cottage Grove, MN

40. Principal Investigator, Updated Mortality Study of 3M Decatur Plant. 3M Corporation; 10/1/98-12/31/01. Update of previous mortality study of perfluorooctane sulfonate exposed workers at a 3M plant in Decatur, AL, to evaluate potential health effects of perfluorooctane sulfonate.
41. Co-Investigator, Mortality Study of Anesthesiologists. American Society of Anesthesiology; 01/01/97-12/31/98; This study compared the mortality experience of anesthesiologists and internists to investigate potential health effects of operating room exposures.
42. Research Scientist, Pacific Northwest Agricultural Safety and Health Center. National Institute for Occupational Safety and Health; 9/30/97-9/29/01. This center was established to improve health and safety related to farming, fishing, logging, and forestry in the Pacific Northwest.
43. Co-Investigator, Semen as a Biomarker of Effect Among Lead Exposed Men Disorders of Reproduction. National Institute for Occupational Safety and Health; 04/01/92 – 03/31/94. This study evaluated reproductive health effects of men employed at a lead smelter.
44. Co-Investigator, Assessment of Sperm Motility Among Lead Exposed Men. Industrial Hygiene Research Award, Department of Environmental Health, University of Washington; 11/15/92-6/30/93. This study evaluated methods for studying the reproductive health effects of men occupationally exposed to lead.
45. Co-Investigator, Reproductive Toxicity Assessment of Lead Exposed Men. Biomedical Research Support Grants, Department of Environmental Health, University of Washington; 11/1/91-3/31/92; This study developed methods for studying the reproductive health effects of men occupationally exposed to lead.
46. Co-Investigator, Occupational Lead Exposure and Male Reproductive Health: The Use of Semen as a Biomarker of Effect. Industrial Hygiene Research Award, Department of Environmental Health, University of Washington; 11/15/91-6/30/92. This study developed methods for studying the reproductive health effects of men occupationally exposed to lead.