

Exhibit 119

**December 2024 Expert Report of Steven B. Bird, M.D.
[Parkinson's Disease]**

Materials Considered List

Ahlbom A. Modern Epidemiology, 4th edition. TL Lash, TJ VanderWeele, S Haneuse, KJ Rothman. Wolters Kluwer, 2021. *Eur J Epidemiol.* 2021;36(8):767-768. doi:[10.1007/s10654-021-00778-w](https://doi.org/10.1007/s10654-021-00778-w)

Alanee S, Clemons J, Zahnd W, Sadowski D, Dynda D. Trichloroethylene Is Associated with Kidney Cancer Mortality: A Population-based Analysis. *Anticancer Res.* 2015;35(7):4009-4013.

Andrew AS, Li M, Shi X, Rees JR, Craver KM, Petali JM. Kidney Cancer Risk Associated with Historic Groundwater Trichloroethylene Contamination. *Int J Environ Res Public Health.* 2022;19(2):618. doi:[10.3390/ijerph19020618](https://doi.org/10.3390/ijerph19020618)

Antweiler H. Studies on the metabolism of vinyl chloride. *Environ Health Perspect.* 1976;17:217-219. doi:[10.1289/ehp.7617217](https://doi.org/10.1289/ehp.7617217)

Archer NP, Bradford CM, Villanacci JF, et al. Relationship between vapor intrusion and human exposure to trichloroethylene. *Journal of Environmental Science and Health, Part A.* 2015;50(13):1360-1368. doi:[10.1080/10934529.2015.1064275](https://doi.org/10.1080/10934529.2015.1064275)

Aschengrau A, Ozonoff D, Paulu C, et al. Cancer risk and tetrachloroethylene-contaminated drinking water in Massachusetts. *Arch Environ Health.* 1993;48(5):284-292. doi:[10.1080/00039896.1993.9936715](https://doi.org/10.1080/00039896.1993.9936715)

ASTDR. *Morbidity Study of Former Marines, Employees, and Dependents Potentially Exposed to Contaminated Drinking Water at U.S. Marine Corps Base Camp Lejeune.*; 2018.

ATSDR Public Health Assessment, 2017

ATSDR Assessment of the Evidence for the Drinking Water Contaminants at Camp Lejeune and Specific Cancers and Other Diseases, 2017

ATSDR. Toxicological Profile for Trichlorethylene 2019 Jun

Azimi M, Bahrami MR, Rezaei Hachesu V, et al. Primary DNA Damage in Dry Cleaners with Perchlorethylene Exposure. *Int J Occup Environ Med.* 2017;8(4):224-231. doi:[10.15171/ijoem.2017.1089](https://doi.org/10.15171/ijoem.2017.1089)

Bartsch H, Malaveille C, Barbin A, Bresil H, Tomatis L, Montesano R. Mutagenicity and metabolism of vinyl chloride and related compounds. *Environmental Health Perspectives.* 1976;17:193-198. doi:[10.1289/ehp.7617193](https://doi.org/10.1289/ehp.7617193)

Bassig BA, Friesen MC, Vermeulen R, et al. Occupational Exposure to Benzene and Non-Hodgkin Lymphoma in a Population-Based Cohort: The Shanghai Women's Health Study. *Environmental Health Perspectives*. 2015;123(10):971-977. doi:[10.1289/ehp.1408307](https://doi.org/10.1289/ehp.1408307)

Bassig BA, Shu XO, Friesen MC, et al. Occupational exposure to benzene and risk of non-Hodgkin lymphoma in an extended follow-up of two population-based prospective cohorts of Chinese men and women. *International Journal of Cancer*. 2024;155(12):2159-2168. doi:[10.1002/ijc.35095](https://doi.org/10.1002/ijc.35095)

Bassig BA, Zhang L, Vermeulen R, et al. Comparison of hematological alterations and markers of B-cell activation in workers exposed to benzene, formaldehyde and trichloroethylene. *Carcinogenesis*. 2016;37(7):692-700. doi:[10.1093/carcin/bgw053](https://doi.org/10.1093/carcin/bgw053)

Beavers JD, Himmelstein JS, Hammond SK, Smith TJ, Kenyon EM, Sweet CP. Exposure in a Household Using Gasoline-Contaminated Water: A Pilot Study. *Journal of Occupational and Environmental Medicine*. 1996;38(1):35-38.

Benedict WF, Banerjee A, Venkatesan N. Cyclophosphamide-induced oncogenic transformation, chromosomal breakage, and sister chromatid exchange following microsomal activation. *Cancer Res*. 1978;38(9):2922-2924.

Bexfield LM, Belitz K, Fram MS, Lindsey BD. Volatile organic compounds in groundwater used for public supply across the United States: Occurrence, explanatory factors, and human-health context. *Science of The Total Environment*. 2022;827:154313. doi:[10.1016/j.scitotenv.2022.154313](https://doi.org/10.1016/j.scitotenv.2022.154313)

Boice JD, Marano DE, Fryzek JP, Sadler CJ, McLaughlin JK. Mortality among aircraft manufacturing workers. *Occup Environ Med*. 1999;56(9):581-597. doi:[10.1136/oem.56.9.581](https://doi.org/10.1136/oem.56.9.581)

Bolognesi C, Bruzzone M, Ceppi M, Kirsch-Volders M. The lymphocyte cytokinesis block micronucleus test in human populations occupationally exposed to vinyl chloride: A systematic review and meta-analysis. *Mutation Research/Reviews in Mutation Research*. 2017;774:1-11. doi:[10.1016/j.mrrev.2017.07.003](https://doi.org/10.1016/j.mrrev.2017.07.003)

Bolt HM. Vinyl chloride-a classical industrial toxicant of new interest. *Crit Rev Toxicol*. 2005;35(4):307-323. doi:[10.1080/10408440490915975](https://doi.org/10.1080/10408440490915975)

Bosetti C, La Vecchia C, Lipworth L, McLaughlin J. Occupational exposure to vinyl chloride and cancer risk: a review of the epidemiologic literature. *European Journal of Cancer Prevention*. 2003;12(5):427-430.

Bove FJ, Greek A, Gatiba R, Boehm RC, Mohnsen MM. Evaluation of mortality among Marines, Navy personnel, and civilian workers exposed to contaminated drinking water at USMC base Camp Lejeune: a cohort study. *Environ Health*. 2024;23(1):61. doi:[10.1186/s12940-024-01099-7](https://doi.org/10.1186/s12940-024-01099-7)

Bove FJ, Greek A, Gatiba R, et al. Cancer Incidence among Marines and Navy Personnel and Civilian Workers Exposed to Industrial Solvents in Drinking Water at US Marine Corps Base Camp Lejeune: A Cohort Study. *Environ Health Perspect.* 2024;132(10):107008. doi:[10.1289/EHP14966](https://doi.org/10.1289/EHP14966)

Bove FJ, Ruckart PZ, Maslia M, Larson TC. Evaluation of mortality among marines and navy personnel exposed to contaminated drinking water at USMC base Camp Lejeune: a retrospective cohort study. *Environmental Health.* 2014;13(1):10. doi:[10.1186/1476-069X-13-10](https://doi.org/10.1186/1476-069X-13-10)

Bove FJ, Ruckart PZ, Maslia M, Larson TC. Mortality study of civilian employees exposed to contaminated drinking water at USMC Base Camp Lejeune: a retrospective cohort study. *Environmental Health.* 2014;13(1):68. doi:[10.1186/1476-069X-13-68](https://doi.org/10.1186/1476-069X-13-68)

Bruckner JV, Davis BD, Blancato JN. Metabolism, toxicity, and carcinogenicity of trichloroethylene. *Crit Rev Toxicol.* 1989;20(1):31-50. doi:[10.3109/10408448909037475](https://doi.org/10.3109/10408448909037475)

Brüning T, Bolt HM. Renal toxicity and carcinogenicity of trichloroethylene: key results, mechanisms, and controversies. *Crit Rev Toxicol.* 2000;30(3):253-285. doi:[10.1080/10408440091159202](https://doi.org/10.1080/10408440091159202)

Buchter A, Filser JG, Peter H, Bolt HM. Pharmacokinetics of vinyl chloride in the Rhesus monkey. *Toxicol Lett.* 1980;6(1):33-36. doi:[10.1016/0378-4274\(80\)90099-5](https://doi.org/10.1016/0378-4274(80)90099-5)

Callahan CL, Stewart PA, Blair A, Purdue MP. Extended Mortality Follow-up of a Cohort of Dry Cleaners. *Epidemiology.* 2019;30(2):285-290. doi:[10.1097/EDE.0000000000000951](https://doi.org/10.1097/EDE.0000000000000951)

Callahan CL, Stewart PA, Friesen MC, et al. Case-control investigation of occupational exposure to chlorinated solvents and non-Hodgkin's lymphoma. *Occup Environ Med.* 2018;75(6):415-420. doi:[10.1136/oemed-2017-104890](https://doi.org/10.1136/oemed-2017-104890)

Calvert GM, Ruder AM, Petersen MR. Mortality and end-stage renal disease incidence among dry cleaning workers. *Occup Environ Med.* 2011;68(10):709-716. doi:[10.1136/oem.2010.060665](https://doi.org/10.1136/oem.2010.060665)

Carlos-Wallace FM, Zhang L, Smith MT, Rader G, Steinmaus C. Parental, In Utero, and Early-Life Exposure to Benzene and the Risk of Childhood Leukemia: A Meta-Analysis. *Am J Epidemiol.* 2016;183(1):1-14. doi:[10.1093/aje/kwv120](https://doi.org/10.1093/aje/kwv120)

Charbotel B, Fevotte J, Hours M, Martin JL, Bergeret A. Case-control study on renal cell cancer and occupational exposure to trichloroethylene. Part II: Epidemiological aspects. *Ann Occup Hyg.* 2006;50(8):777-787. doi:[10.1093/annhyg/mel039](https://doi.org/10.1093/annhyg/mel039)

Chihara D, Nastoupil LJ, Williams JN, Lee P, Koff JL, Flowers CR. New insights into the epidemiology of non-Hodgkin lymphoma and implications for therapy. *Expert Rev Anticancer Ther.* 2015;15(5):531-544. doi:[10.1586/14737140.2015.1023712](https://doi.org/10.1586/14737140.2015.1023712)

Chiu WA, Jinot J, Scott CS, et al. Human health effects of trichloroethylene: key findings and scientific issues. *Environ Health Perspect.* 2013;121(3):303-311. doi:[10.1289/ehp.1205879](https://doi.org/10.1289/ehp.1205879)

Chiu WA, Micallef S, Monster AC, Bois FY. Toxicokinetics of inhaled trichloroethylene and tetrachloroethylene in humans at 1 ppm: empirical results and comparisons with previous studies. *Toxicol Sci.* 2007;95(1):23-36. doi:[10.1093/toxsci/kfl129](https://doi.org/10.1093/toxsci/kfl129)

Christensen KY, Vizcaya D, Richardson H, Lavoué J, Aronson K, Siemiatycki J. Risk of selected cancers due to occupational exposure to chlorinated solvents in a case-control study in Montreal. *J Occup Environ Med.* 2013;55(2):198-208. doi:[10.1097/JOM.0b013e3182728eab](https://doi.org/10.1097/JOM.0b013e3182728eab)

Cichocki JA, Guyton KZ, Guha N, Chiu WA, Rusyn I, Lash LH. Target Organ Metabolism, Toxicity, and Mechanisms of Trichloroethylene and Perchloroethylene: Key Similarities, Differences, and Data Gaps. *J Pharmacol Exp Ther.* 2016;359(1):110-123. doi:[10.1124/jpet.116.232629](https://doi.org/10.1124/jpet.116.232629)

Cocco P, Vermeulen R, Flore V, et al. Occupational exposure to trichloroethylene and risk of non-Hodgkin lymphoma and its major subtypes: a pooled InterLymph [correction of IinterLymph] analysis. *Occup Environ Med.* 2013;70(11):795-802. doi:[10.1136/oemed-2013-101551](https://doi.org/10.1136/oemed-2013-101551)

Costas K, Knorr RS, Condon SK. A case-control study of childhood leukemia in Woburn, Massachusetts: the relationship between leukemia incidence and exposure to public drinking water. *Sci Total Environ.* 2002;300(1-3):23-35. doi:[10.1016/s0048-9697\(02\)00169-9](https://doi.org/10.1016/s0048-9697(02)00169-9)

Cutler JJ, Parker GS, Rosen S, Prenney B, Healey R, Caldwell GG. Childhood leukemia in Woburn, Massachusetts. *Public Health Rep.* 1986;101(2):201-205.

Dallas CE, Chen XM, Muralidhara S, Varkonyi P, Tackett RL, Bruckner JV. Use of tissue disposition data from rats and dogs to determine species differences in input parameters for a physiological model for perchloroethylene. *Environ Res.* 1994;67(1):54-67. doi:[10.1006/enrs.1994.1064](https://doi.org/10.1006/enrs.1994.1064)

De Miranda BR, Castro SL, Rocha EM, Bodle CR, Johnson KE, Greenamyre JT. The industrial solvent trichloroethylene induces LRRK2 kinase activity and dopaminergic neurodegeneration in a rat model of Parkinson's disease. *Neurobiol Dis.* 2021;153:105312. doi:[10.1016/j.nbd.2021.105312](https://doi.org/10.1016/j.nbd.2021.105312)

DeMoulin D, Cai H, Vermeulen R, Zheng W, Lipworth L, Shu XO. Occupational Benzene Exposure and Cancer Risk among Chinese Men: A Report from the Shanghai Men's Health Study. *Cancer Epidemiol Biomarkers Prev.* 2024;33(11):1465-1474. doi:[10.1158/1055-9965.EPI-24-0325](https://doi.org/10.1158/1055-9965.EPI-24-0325)

DeMoulin D, Cai H, Vermeulen R, Zheng W, Lipworth L, Shu XO. Occupational Benzene Exposure and Cancer Risk among Chinese Men: A Report from the Shanghai Men's Health

Study. *Cancer Epidemiology, Biomarkers & Prevention*. 2024;33(11):1465-1474. doi:[10.1158/1055-9965.EPI-24-0325](https://doi.org/10.1158/1055-9965.EPI-24-0325)

Diodovich C, Ferrario D, Casati B, et al. Sensitivity of human cord blood cells to tetrachloroethylene: cellular and molecular endpoints. *Arch Toxicol*. 2005;79(9):508-514. doi:[10.1007/s00204-005-0662-8](https://doi.org/10.1007/s00204-005-0662-8)

Dollery CT, Davies DS, Conolly ME. Differences in the metabolism of drugs depending upon their routes of administration. *Ann N Y Acad Sci*. 1971;179:108-114. doi:[10.1111/j.1749-6632.1971.tb46893.x](https://doi.org/10.1111/j.1749-6632.1971.tb46893.x)

Dorsey ER, Zafar M, Lettenberger SE, et al. Trichloroethylene: An Invisible Cause of Parkinson's Disease? *Journal of Parkinson's Disease*. 2023;13(2):203-218. doi:[10.3233/JPD-225047](https://doi.org/10.3233/JPD-225047)

EFSA Panel on Contaminants in the Food Chain (CONTAM), Knutsen HK, Alexander J, et al. Risk for animal and human health related to the presence of dioxins and dioxin-like PCBs in feed and food. *EFSA*. 2018;16(11). doi:[10.2903/j.efsa.2018.5333](https://doi.org/10.2903/j.efsa.2018.5333)

Fagliano J, Berry M, Bove F, Burke T. Drinking water contamination and the incidence of leukemia: an ecologic study. *Am J Public Health*. 1990;80(10):1209-1212.

Ferreccio C, Smith AH, Durán V, et al. Case-control study of arsenic in drinking water and kidney cancer in uniquely exposed Northern Chile. *Am J Epidemiol*. 2013;178(5):813-818. doi:[10.1093/aje/kwt059](https://doi.org/10.1093/aje/kwt059)

Forkert PG, Lash L, Tardif R, Tanphaichitr N, Vandevoort C, Moussa M. Identification of Trichloroethylene and Its Metabolites in Human Seminal Fluid of Workers Exposed to Trichloroethylene. *Drug Metab Dispos*. 2003;31(3):306-311. doi:[10.1124/dmd.31.3.306](https://doi.org/10.1124/dmd.31.3.306)

Frantz SW, Watanabe PG. Tetrachloroethylene: Balance and tissue distribution in male Sprague-Dawley rats by drinking-water administration. *Toxicology and Applied Pharmacology*. 1983;69(1):66-72. doi:[10.1016/0041-008X\(83\)90120-5](https://doi.org/10.1016/0041-008X(83)90120-5)

Garnier R, Bédouin J, Pépin G, Gaillard Y. Coin-Operated Dry Cleaning Machines May Be Responsible for Acute Tetrachloroethylene Poisoning: Report of 26 Cases Including One Death. *Journal of Toxicology: Clinical Toxicology*. 1996;34(2):191-197. doi:[10.3109/15563659609013769](https://doi.org/10.3109/15563659609013769)

Gash DM, Rutland K, Hudson NL, et al. Trichloroethylene: Parkinsonism and complex 1 mitochondrial neurotoxicity. *Ann Neurol*. 2008;63(2):184-192. doi:[10.1002/ana.21288](https://doi.org/10.1002/ana.21288)

Ghahri A, Dehghan MH, Seydi P, Mashayekhi S, Naderi Y, Seydi E. The perchloroethylene-induced toxicity in dry cleaning workers lymphocytes through induction of oxidative stress. *J Biochem Mol Toxicol*. 2022;36(4):e23000. doi:[10.1002/jbt.23000](https://doi.org/10.1002/jbt.23000)

Giardino NJ, Andelman JB. Characterization of the emissions of trichloroethylene, chloroform, and 1,2-dibromo-3-chloropropane in a full-size, experimental shower. *J Expo Anal Environ Epidemiol*. 1996;6(4):413-423.

Giri AK. Genetic toxicology of vinyl chloride—a review. *Mutation Research/Reviews in Genetic Toxicology*. 1995;339(1):1-14. doi:[10.1016/0165-1110\(94\)00011-Z](https://doi.org/10.1016/0165-1110(94)00011-Z)

Goldman SM, Quinlan PJ, Ross GW, et al. Solvent Exposures and Parkinson's Disease Risk in Twins. *Ann Neurol*. 2012;71(6):776-784. doi:[10.1002/ana.22629](https://doi.org/10.1002/ana.22629)

Goldman SM, Weaver FM, Gonzalez B, et al. Parkinson's Disease Progression and Exposure to Contaminated Water at Camp Lejeune. *Movement Disorders*. 2024;39(10):1732-1739. doi:[10.1002/mds.29922](https://doi.org/10.1002/mds.29922)

Goldman SM, Weaver FM, Stroupe KT, et al. Risk of Parkinson Disease Among Service Members at Marine Corps Base Camp Lejeune. *JAMA Neurology*. 2023;80(7):673-681. doi:[10.1001/jamaneurol.2023.1168](https://doi.org/10.1001/jamaneurol.2023.1168)

Gordon SM, Brinkman MC, Ashley DL, et al. Changes in Breath Trihalomethane Levels Resulting from Household Water-Use Activities. *Environmental Health Perspectives*. 2006;114(4):514-521. doi:[10.1289/ehp.8171](https://doi.org/10.1289/ehp.8171)

Green T, Hathway DE. The biological fate in rats of vinyl chloride in relation to its oncogenicity. *Chem Biol Interact*. 1975;11(6):545-562. doi:[10.1016/0009-2797\(75\)90030-7](https://doi.org/10.1016/0009-2797(75)90030-7)

Green T, Hathway DE. Interactions of vinyl chloride with rat-liver DNA in vivo. *Chemico-Biological Interactions*. 1978;22(2):211-224. doi:[10.1016/0009-2797\(78\)90126-6](https://doi.org/10.1016/0009-2797(78)90126-6)

Greenland S, Salvan A, Wegman DH, Hallock MF, Smith TJ. A case-control study of cancer mortality at a transformer-assembly facility. *Int Arch Occup Environ Health*. 1994;66(1):49-54. doi:[10.1007/BF00386579](https://doi.org/10.1007/BF00386579)

Grigoryan H, Edmands WMB, Lan Q, et al. Adductomic signatures of benzene exposure provide insights into cancer induction. *Carcinogenesis*. 2018;39(5):661-668. doi:[10.1093/carcin/bgy042](https://doi.org/10.1093/carcin/bgy042)

Guo H, Ahn S, Zhang L. Benzene-associated immunosuppression and chronic inflammation in humans: a systematic review. *Occup Environ Med*. 2021;78(5):377-384. doi:[10.1136/oemed-2020-106517](https://doi.org/10.1136/oemed-2020-106517)

Guyton KZ, Hogan KA, Scott CS, et al. Human Health Effects of Tetrachloroethylene: Key Findings and Scientific Issues. *Environ Health Perspect*. 2014;122(4):325-334. doi:[10.1289/ehp.1307359](https://doi.org/10.1289/ehp.1307359)

Haddad S, Tardif GC, Tardif R. Development of physiologically based toxicokinetic models for improving the human indoor exposure assessment to water contaminants: trichloroethylene and

trihalomethanes. *J Toxicol Environ Health A*. 2006;69(23):2095-2136.
doi:[10.1080/15287390600631789](https://doi.org/10.1080/15287390600631789)

Hadkhale K, Martinsen JI, Weiderpass E, et al. Occupational exposure to solvents and bladder cancer: A population-based case control study in Nordic countries. *Int J Cancer*. 2017;140(8):1736-1746. doi:[10.1002/ijc.30593](https://doi.org/10.1002/ijc.30593)

Hake CL, Stewart RD. Human exposure to tetrachloroethylene: inhalation and skin contact. *Environ Health Perspect*. 1977;21:231-238. doi:[10.1289/ehp.7721231](https://doi.org/10.1289/ehp.7721231)

Hardell L, Lindström G, van Bavel B, Fredrikson M, Liljegren G. Some aspects of the etiology of non-Hodgkin's lymphoma. *Environ Health Perspect*. 1998;106 Suppl 2(Suppl 2):679-681. doi:[10.1289/ehp.98106679](https://doi.org/10.1289/ehp.98106679)

Hartwig A. The role of DNA repair in benzene-induced carcinogenesis. *Chemico-Biological Interactions*. 2010;184(1):269-272. doi:[10.1016/j.cbi.2009.12.029](https://doi.org/10.1016/j.cbi.2009.12.029)

Hayes SA, Pandiri AR, Ton T vu T, et al. Renal Cell Carcinomas in Vinylidene Chloride–exposed Male B6C3F1 Mice Are Characterized by Oxidative Stress and TP53 Pathway Dysregulation. *Toxicol Pathol*. 2016;44(1):71-87. doi:[10.1177/0192623315610820](https://doi.org/10.1177/0192623315610820)

Hefner RE, Watanabe PG, Gehring PJ. Preliminary studies on the fate of inhaled vinyl chloride monomer (VCM) in rats. *Environmental Health Perspectives*. 1975;11:85-95.
doi:[10.1289/ehp.751185](https://doi.org/10.1289/ehp.751185)

Hill AB. The Environment and Disease: Association or Causation? *Proceedings of the Royal Society of Medicine*. 1965;58(5):295-300. doi:[10.1177/003591576505800503](https://doi.org/10.1177/003591576505800503)

Hiraku Y, Kawanishi S. Oxidative DNA damage and apoptosis induced by benzene metabolites. *Cancer Res*. 1996;56(22):5172-5178.

Hsieh HI, Chen PC, Wong RH, et al. Mortality from liver cancer and leukaemia among polyvinyl chloride workers in Taiwan: an updated study. *Occup Environ Med*. 2011;68(2):120-125.
doi:[10.1136/oem.2010.056978](https://doi.org/10.1136/oem.2010.056978)

Hu C, Jiang L, Geng C, Zhang X, Cao J, Zhong L. Possible involvement of oxidative stress in trichloroethylene-induced genotoxicity in human HepG2 cells. *Mutation Research/Genetic Toxicology and Environmental Mutagenesis*. 2008;652(1):88-94.
doi:[10.1016/j.mrgentox.2008.01.002](https://doi.org/10.1016/j.mrgentox.2008.01.002)

Hu J, Mao Y, White K, The Canadian Cancer Registries Epidemiology Research Group. Renal cell carcinoma and occupational exposure to chemicals in Canada. *Occupational Medicine*. 2002;52(3):157-164. doi:[10.1093/occmed/52.3.157](https://doi.org/10.1093/occmed/52.3.157)

IARC. *Benzene*.; 2018. Accessed October 23, 2024. <https://publications.iarc.fr/Book-And-Report-Series/Iarc-Monographs-On-The-Identification-Of-Carcinogenic-Hazards-To-Humans/Benzene-2018>

IARC Working Group on the Evaluation of Carcinogenic Risks to Humans. *Trichloroethylene, Tetrachloroethylene, and Some Other Chlorinated Agents*. International Agency for Research on Cancer; 2014.

Infante PF, Wagoner JK, Waxweiler RJ. Carcinogenic, mutagenic and teratogenic risks associated with vinyl chloride. *Mutation Research/Fundamental and Molecular Mechanisms of Mutagenesis*. 1976;41(1):131-141. doi:[10.1016/0027-5107\(76\)90083-X](https://doi.org/10.1016/0027-5107(76)90083-X)

Ji F, Wang W, Xia ZL, et al. Prevalence and persistence of chromosomal damage and susceptible genotypes of metabolic and DNA repair genes in Chinese vinyl chloride-exposed workers. *Carcinogenesis*. 2010;31(4):648-653. doi:[10.1093/carcin/bgq015](https://doi.org/10.1093/carcin/bgq015)

Karami S, Bassig B, Stewart PA, et al. Occupational trichloroethylene exposure and risk of lymphatic and haematopoietic cancers: a meta-analysis. *Occup Environ Med*. 2013;70(8):591-599. doi:[10.1136/oemed-2012-101212](https://doi.org/10.1136/oemed-2012-101212)

Kelsh MA, Alexander DD, Mink PJ, Mandel JH. Occupational trichloroethylene exposure and kidney cancer: a meta-analysis. *Epidemiology*. 2010;21(1):95-102. doi:[10.1097/EDE.0b013e3181c30e92](https://doi.org/10.1097/EDE.0b013e3181c30e92)

Kezic S, Monster AC, Krüse J, Verberk MM. Skin absorption of some vaporous solvents in volunteers. *Int Arch Occup Environ Health*. 2000;73(6):415-422. doi:[10.1007/s004200000161](https://doi.org/10.1007/s004200000161)

Khalade A, Jaakkola MS, Pukkala E, Jaakkola JJK. Exposure to benzene at work and the risk of leukemia: a systematic review and meta-analysis. *Environ Health*. 2010;9:31. doi:[10.1186/1476-069X-9-31](https://doi.org/10.1186/1476-069X-9-31)

Khan S, Priyamvada S, Khan SA, et al. Effect of trichloroethylene (TCE) toxicity on the enzymes of carbohydrate metabolism, brush border membrane and oxidative stress in kidney and other rat tissues. *Food and Chemical Toxicology*. 2009;47(7):1562-1568. doi:[10.1016/j.fct.2009.04.002](https://doi.org/10.1016/j.fct.2009.04.002)

Kistemann T, Rind E, Rechenburg A, et al. A comparison of efficiencies of microbiological pollution removal in six sewage treatment plants with different treatment systems. *Int J Hyg Environ Health*. 2008;211(5-6):534-545. doi:[10.1016/j.ijheh.2008.04.003](https://doi.org/10.1016/j.ijheh.2008.04.003)

Köppel C, Arndt I, Arendt U, Koeppe P. Acute Tetrachloroethylene Poisoning - Blood Elimination Kinetics During Hyperventilation Therapy. *Journal of Toxicology: Clinical Toxicology*. 1985;23(2-3):103-115. doi:[10.3109/15563658508990621](https://doi.org/10.3109/15563658508990621)

Lagakos SW, Wessen BJ, Zelen M. An Analysis of Contaminated Well Water and Health Effects in Woburn, Massachusetts. *Journal of the American Statistical Association*. 1986;81(395):583-596. doi:[10.1080/01621459.1986.10478307](https://doi.org/10.1080/01621459.1986.10478307)

Lamm SH, Engel A, Joshi KP, Byrd DM, Chen R. Chronic myelogenous leukemia and benzene exposure: a systematic review and meta-analysis of the case-control literature. *Chem Biol Interact*. 2009;182(2-3):93-97. doi:[10.1016/j.cbi.2009.08.010](https://doi.org/10.1016/j.cbi.2009.08.010)

Lan Q, Zhang L, Tang X, et al. Occupational exposure to trichloroethylene is associated with a decline in lymphocyte subsets and soluble CD27 and CD30 markers. *Carcinogenesis*. 2010;31(9):1592-1596. doi:[10.1093/carcin/bgq121](https://doi.org/10.1093/carcin/bgq121)

Lan Q, Zhang L, Tang X, et al. Occupational exposure to trichloroethylene is associated with a decline in lymphocyte subsets and soluble CD27 and CD30 markers. *Carcinogenesis*. 2010;31(9):1592-1596. doi:[10.1093/carcin/bgq121](https://doi.org/10.1093/carcin/bgq121)

Lash LH, Fisher JW, Lipscomb JC, Parker JC. Metabolism of trichloroethylene. *Environ Health Perspect*. 2000;108 Suppl 2(Suppl 2):177-200. doi:[10.1289/ehp.00108s2177](https://doi.org/10.1289/ehp.00108s2177)

Lash LH, Parker JC. Hepatic and renal toxicities associated with perchloroethylene. *Pharmacol Rev*. 2001;53(2):177-208.

Lash LH, Parker JC, Scott CS. Modes of action of trichloroethylene for kidney tumorigenesis. *Environ Health Perspect*. 2000;108 Suppl 2(Suppl 2):225-240. doi:[10.1289/ehp.00108s2225](https://doi.org/10.1289/ehp.00108s2225)

Lash LH, Chiu WA, Guyton KZ, Rusyn I. Trichloroethylene biotransformation and its role in mutagenicity, carcinogenicity and target organ toxicity. *Mutat Res Rev Mutat Res*. 2014;762:22-36. doi:[10.1016/j.mrrev.2014.04.003](https://doi.org/10.1016/j.mrrev.2014.04.003)

Li L, Li D. Inter-Individual Variability and Non-linear Dose-Response Relationship in Assessing Human Health Impact From Chemicals in LCA: Addressing Uncertainties in Exposure and Toxicological Susceptibility. *Front Sustain*. 2021;2. doi:[10.3389/frsus.2021.648138](https://doi.org/10.3389/frsus.2021.648138)

Linnet MS, Yin SN, Gilbert ES, et al. A retrospective cohort study of cause-specific mortality and incidence of hematopoietic malignancies in Chinese benzene-exposed workers. *International Journal of Cancer*. 2015;137(9):2184-2197. doi:[10.1002/ijc.29591](https://doi.org/10.1002/ijc.29591)

Liu N, Bu Z, Liu W, et al. Health effects of exposure to indoor volatile organic compounds from 1980 to 2017: A systematic review and meta-analysis. *Indoor Air*. 2022;32(5):e13038. doi:[10.1111/ina.13038](https://doi.org/10.1111/ina.13038)

Liu S, Yan EZ, Turyk ME, et al. A pilot study characterizing tetrachloroethylene exposure with exhaled breath in an impacted community. *Environ Pollut*. 2022;297:118756. doi:[10.1016/j.envpol.2021.118756](https://doi.org/10.1016/j.envpol.2021.118756)

Liu W, Chen L, Liu X, Chen J, Liu R, Niu H. Comparison of the health risks associated with different exposure pathways of multiple volatile chlorinated hydrocarbons in contaminated drinking groundwater. *Environ Pollut.* 2019;255(Pt 3):113339. doi:[10.1016/j.envpol.2019.113339](https://doi.org/10.1016/j.envpol.2019.113339)

Liu Y, Bartlett MG, White CA, Muralidhara S, Bruckner JV. Presystemic Elimination of Trichloroethylene in Rats Following Environmentally Relevant Oral Exposures. *Drug Metab Dispos.* 2009;37(10):1994-1998. doi:[10.1124/dmd.109.028100](https://doi.org/10.1124/dmd.109.028100)

Lock EA, Zhang J, Checkoway H. Solvents and Parkinson disease: a systematic review of toxicological and epidemiological evidence. *Toxicol Appl Pharmacol.* 2013;266(3):345-355. doi:[10.1016/j.taap.2012.11.016](https://doi.org/10.1016/j.taap.2012.11.016)

Luo YS, Furuya S, Soldatov VY, et al. Metabolism and Toxicity of Trichloroethylene and Tetrachloroethylene in Cytochrome P450 2E1 Knockout and Humanized Transgenic Mice. *Toxicol Sci.* 2018;164(2):489-500. doi:[10.1093/toxsci/kfy099](https://doi.org/10.1093/toxsci/kfy099)

Lynge E, Andersen A, Nilsson R, et al. Risk of cancer and exposure to gasoline vapors. *Am J Epidemiol.* 1997;145(5):449-458. doi:[10.1093/oxfordjournals.aje.a009127](https://doi.org/10.1093/oxfordjournals.aje.a009127)

Lynge E, Andersen A, Rylander L, et al. Cancer in persons working in dry cleaning in the Nordic countries. *Environ Health Perspect.* 2006;114(2):213-219. doi:[10.1289/ehp.8425](https://doi.org/10.1289/ehp.8425)

Mandel JH, Kelsh MA, Mink PJ, et al. Occupational trichloroethylene exposure and non-Hodgkin's lymphoma: a meta-analysis and review. *Occup Environ Med.* 2006;63(9):597-607. doi:[10.1136/oem.2005.022418](https://doi.org/10.1136/oem.2005.022418)

Maslia ML, Aral MM, Ruckart PZ, Bove FJ. Reconstructing Historical VOC Concentrations in Drinking Water for Epidemiological Studies at a U.S. Military Base: Summary of Results. *Water (Basel).* 2016;8(10):449. doi:[10.3390/w8100449](https://doi.org/10.3390/w8100449)

McHale CM, Zhang L, Smith MT. Current understanding of the mechanism of benzene-induced leukemia in humans: implications for risk assessment. *Carcinogenesis.* 2012;33(2):240-252. doi:[10.1093/carcin/bgr297](https://doi.org/10.1093/carcin/bgr297)

McLaughlin JK, Blot WJ. A critical review of epidemiology studies of trichloroethylene and perchloroethylene and risk of renal-cell cancer. *Int Arch Occup Environ Health.* 1997;70(4):222-231. doi:[10.1007/s004200050211](https://doi.org/10.1007/s004200050211)

Miligi L, Costantini AS, Benvenuti A, et al. Occupational exposure to solvents and the risk of lymphomas. *Epidemiology.* 2006;17(5):552-561. doi:[10.1097/01.ede.0000231279.30988.4d](https://doi.org/10.1097/01.ede.0000231279.30988.4d)

Modjtahedi B, Maibach HI. In vivo percutaneous absorption of benzene in man: Forearm and palm | Request PDF. *ResearchGate*. Published online October 22, 2024. doi:[10.1016/j.fct.2007.11.014](https://doi.org/10.1016/j.fct.2007.11.014)

Moore LE, Boffetta P, Karami S, et al. Occupational trichloroethylene exposure and renal carcinoma risk: evidence of genetic susceptibility by reductive metabolism gene variants. *Cancer Res.* 2010;70(16):6527-6536. doi:[10.1158/0008-5472.CAN-09-4167](https://doi.org/10.1158/0008-5472.CAN-09-4167)

Morgan RW, Kelsh MA, Zhao K, Heringer S. Mortality of aerospace workers exposed to trichloroethylene. *Epidemiology.* 1998;9(4):424-431.

Mortuza T, Muralidhara S, White CA, Cummings BS, Hines C, Bruckner JV. Effect of dose and exposure protocol on the toxicokinetics and first-pass elimination of trichloroethylene and 1,1,1-trichloroethane. *Toxicol Appl Pharmacol.* 2018;360:185-192. doi:[10.1016/j.taap.2018.09.043](https://doi.org/10.1016/j.taap.2018.09.043)

Moura-Corrêa MJ. Leukemia Mortality among Benzene-Exposed Workers in Brazil (2006–2011). *International Journal of Environmental Research and Public Health.* 2023;20(13):6314. doi:[10.3390/ijerph20136314](https://doi.org/10.3390/ijerph20136314)

Mundt KA, Dell LD, Crawford L, Gallagher AE. Quantitative estimated exposure to vinyl chloride and risk of angiosarcoma of the liver and hepatocellular cancer in the US industry-wide vinyl chloride cohort: mortality update through 2013. *Occup Environ Med.* 2017;74(10):709-716. doi:[10.1136/oemed-2016-104051](https://doi.org/10.1136/oemed-2016-104051)

Nakai JS, Stathopoulos PB, Campbell GL, Chu I, Li-Muller A, Aucoin R. Penetration of chloroform, trichloroethylene, and tetrachloroethylene through human skin. *J Toxicol Environ Health A.* 1999;58(3):157-170. doi:[10.1080/009841099157368](https://doi.org/10.1080/009841099157368)

National Toxicology Program. *Report on Carcinogens Monograph on Trichloroethylene: RoC Monograph 05.* National Toxicology Program; 2015. Accessed October 10, 2024. <http://www.ncbi.nlm.nih.gov/books/NBK575901/>

Pähler A, Parker J, Dekant W. Dose-dependent protein adduct formation in kidney, liver, and blood of rats and in human blood after perchloroethene inhalation. *Toxicol Sci.* 1999;48(1):5-13. doi:[10.1093/toxsci/48.1.5](https://doi.org/10.1093/toxsci/48.1.5)

Pegg DG, Zempel JA, Braun WH, Watanabe PG. Disposition of tetrachloro(14C)ethylene following oral and inhalation exposure in rats. *Toxicology and Applied Pharmacology.* 1979;51(3):465-474. doi:[10.1016/0041-008X\(79\)90371-5](https://doi.org/10.1016/0041-008X(79)90371-5)

Pesch B, Haerting J, Ranft U, Klimpel A, Oelschlägel B, Schill W. Occupational risk factors for urothelial carcinoma: agent-specific results from a case-control study in Germany. MURC Study Group. Multicenter Urothelial and Renal Cancer. *Int J Epidemiol.* 2000;29(2):238-247. doi:[10.1093/ije/29.2.238](https://doi.org/10.1093/ije/29.2.238)

Phillips RV, Rieswijk L, Hubbard AE, et al. Human exposure to trichloroethylene is associated with increased variability of blood DNA methylation that is enriched in genes and pathways related to autoimmune disease and cancer. *Epigenetics.* 2019;14(11):1112-1124. doi:[10.1080/15592294.2019.1633866](https://doi.org/10.1080/15592294.2019.1633866)

Pierri D. Actual decay of tetrachloroethene (PCE) and trichloroethene (TCE) in a highly contaminated shallow groundwater system. *Environmental Advances*. 2021;5:100090. doi:[10.1016/j.envadv.2021.100090](https://doi.org/10.1016/j.envadv.2021.100090)

Pleil JD, Lindstrom AB. Exhaled human breath measurement method for assessing exposure to halogenated volatile organic compounds. *Clin Chem*. 1997;43(5):723-730.

Poet TS, Corley RA, Thrall KD, et al. Assessment of the Percutaneous Absorption of Trichloroethylene in Rats and Humans Using MS/MS Real-Time Breath Analysis and Physiologically Based Pharmacokinetic Modeling. *Toxicological Sciences*. 2000;56(1):61-72. doi:[10.1093/toxsci/56.1.61](https://doi.org/10.1093/toxsci/56.1.61)

Press DJ, McKinley M, Deapen D, Clarke CA, Gomez SL. Residential cancer cluster investigation nearby a Superfund Study Area with trichloroethylene contamination. *Cancer Causes Control*. 2016;27(5):607-613. doi:[10.1007/s10552-016-0734-5](https://doi.org/10.1007/s10552-016-0734-5)

Preston DL, Ron E, Tokuoka S, et al. Solid cancer incidence in atomic bomb survivors: 1958-1998. *Radiat Res*. 2007;168(1):1-64. doi:[10.1667/RR0763.1](https://doi.org/10.1667/RR0763.1)

Preston DL, Cullings H, Suyama A, et al. Solid cancer incidence in atomic bomb survivors exposed in utero or as young children. *J Natl Cancer Inst*. 2008;100(6):428-436. doi:[10.1093/jnci/djn045](https://doi.org/10.1093/jnci/djn045)

Purdue MP, Stewart PA, Friesen MC, et al. Occupational exposure to chlorinated solvents and kidney cancer: a case-control study. *Occup Environ Med*. 2017;74(4):268-274. doi:[10.1136/oemed-2016-103849](https://doi.org/10.1136/oemed-2016-103849)

Raabe GK, Wong O. Leukemia mortality by cell type in petroleum workers with potential exposure to benzene. *Environmental Health Perspectives*. 1996;104(suppl 6):1381-1392. doi:[10.1289/ehp.961041381](https://doi.org/10.1289/ehp.961041381)

Raaschou-Nielsen O, Hansen J, McLaughlin JK, et al. Cancer risk among workers at Danish companies using trichloroethylene: a cohort study. *Am J Epidemiol*. 2003;158(12):1182-1192. doi:[10.1093/aje/kwg282](https://doi.org/10.1093/aje/kwg282)

Rana I, Dahlberg S, Steinmaus C, Zhang L. Benzene exposure and non-Hodgkin lymphoma: a systematic review and meta-analysis of human studies. *The Lancet Planetary Health*. 2021;5(9):e633-e643. doi:[10.1016/S2542-5196\(21\)00149-2](https://doi.org/10.1016/S2542-5196(21)00149-2)

Rauma M, Boman A, Johanson G. Predicting the absorption of chemical vapours. *Adv Drug Deliv Rev*. 2013;65(2):306-314. doi:[10.1016/j.addr.2012.03.012](https://doi.org/10.1016/j.addr.2012.03.012)

Rinsky RA, Smith AB, Hornung R, et al. Benzene and Leukemia. *New England Journal of Medicine*. 1987;316(17):1044-1050. doi:[10.1056/NEJM198704233161702](https://doi.org/10.1056/NEJM198704233161702)

Rosenfeld PE, Spaeth KR, McCarthy SJ, Winter SC, Wilson MS, Hagemann M. Camp Lejeune Marine Cancer Risk Assessment for Exposure to Contaminated Drinking Water From 1955 to 1987. *Water Air Soil Pollut.* 2024;235(2):124. doi:[10.1007/s11270-023-06863-y](https://doi.org/10.1007/s11270-023-06863-y)

Ruder AM, Ward EM, Brown DP. Mortality in dry-cleaning workers: an update. *Am J Ind Med.* 2001;39(2):121-132. doi:[10.1002/1097-0274\(200102\)39:2<121::aid-ajim1000>3.0.co;2-h](https://doi.org/10.1002/1097-0274(200102)39:2<121::aid-ajim1000>3.0.co;2-h)

Rusyn I, Chiu WA, Lash LH, Kromhout H, Hansen J, Guyton KZ. Trichloroethylene: Mechanistic, epidemiologic and other supporting evidence of carcinogenic hazard. *Pharmacol Ther.* 2014;141(1):55-68. doi:[10.1016/j.pharmthera.2013.08.004](https://doi.org/10.1016/j.pharmthera.2013.08.004)

Santos M dos A, Távora BE, Koide S, Caldas ED. Human risk assessment of benzene after a gasoline station fuel leak. *Rev Saude Publica.* 2013;47(2):335-344. doi:[10.1590/S0034-8910.2013047004381](https://doi.org/10.1590/S0034-8910.2013047004381)

Scheepers PTJ, Graumans MHF, van Dael M, et al. Intrusion of chlorinated hydrocarbons and their degradation products from contaminated soil. Measurement of indoor air quality and biomonitoring by analysis of end-exhaled air. *Science of The Total Environment.* 2019;653:223-230. doi:[10.1016/j.scitotenv.2018.10.365](https://doi.org/10.1016/j.scitotenv.2018.10.365)

Scott CS, Chiu WA. Trichloroethylene Cancer Epidemiology: A Consideration of Select Issues. *Environmental Health Perspectives.* 2006;114(9):1471-1478. doi:[10.1289/ehp.8949](https://doi.org/10.1289/ehp.8949)

Scott CS, Jinot J. Trichloroethylene and cancer: systematic and quantitative review of epidemiologic evidence for identifying hazards. *Int J Environ Res Public Health.* 2011;8(11):4238-4272. doi:[10.3390/ijerph8114238](https://doi.org/10.3390/ijerph8114238)

Seldén AI, Ahlborg G. Cancer morbidity in Swedish dry-cleaners and laundry workers: historically prospective cohort study. *Int Arch Occup Environ Health.* 2011;84(4):435-443. doi:[10.1007/s00420-010-0582-7](https://doi.org/10.1007/s00420-010-0582-7)

Seyyedsalehi MS, Bonetti M, Shah D, DeStefano V, Boffetta P. Occupational benzene exposure and risk of kidney and bladder cancers: a systematic review and meta-analysis. *European Journal of Cancer Prevention.* Published online August 20, 2024. doi:[10.1097/CEJ.0000000000000911](https://doi.org/10.1097/CEJ.0000000000000911)

Shala NK, Stenehjem JS, Babigumira R, et al. Exposure to benzene and other hydrocarbons and risk of bladder cancer among male offshore petroleum workers. *Br J Cancer.* 2023;129(5):838-851. doi:[10.1038/s41416-023-02357-0](https://doi.org/10.1038/s41416-023-02357-0)

Siegel Scott C, Jinot J. Trichloroethylene and Cancer: Systematic and Quantitative Review of Epidemiologic Evidence for Identifying Hazards. *International Journal of Environmental Research and Public Health.* 2011;8(11):4238-4271. doi:[10.3390/ijerph8114238](https://doi.org/10.3390/ijerph8114238)

Silver SR, Pinkerton LE, Fleming DA, et al. Retrospective cohort study of a microelectronics and business machine facility. *Am J Ind Med.* 2014;57(4):412-424. doi:[10.1002/ajim.22288](https://doi.org/10.1002/ajim.22288)

Slob W, Bakker MI, Biesebeek JD te, Bokkers BGH. Exploring the Uncertainties in Cancer Risk Assessment Using the Integrated Probabilistic Risk Assessment (IPRA) Approach. *Risk Analysis*. 2014;34(8):1401-1422. doi:[10.1111/risa.12194](https://doi.org/10.1111/risa.12194)

Smith MT. The mechanism of benzene-induced leukemia: a hypothesis and speculations on the causes of leukemia. *Environ Health Perspect*. 1996;104(suppl 6):1219-1225. doi:[10.1289/ehp.961041219](https://doi.org/10.1289/ehp.961041219)

Smith MT. Advances in understanding benzene health effects and susceptibility. *Annu Rev Public Health*. 2010;31:133-148 2 p following 148. doi:[10.1146/annurev.publhealth.012809.103646](https://doi.org/10.1146/annurev.publhealth.012809.103646)

Smith MT, Jones RM, Smith AH. Benzene exposure and risk of non-Hodgkin lymphoma. *Cancer Epidemiol Biomarkers Prev*. 2007;16(3):385-391. doi:[10.1158/1055-9965.EPI-06-1057](https://doi.org/10.1158/1055-9965.EPI-06-1057)

Snyder R, Hedli CC. An overview of benzene metabolism. *Environ Health Perspect*. 1996;104 Suppl 6(Suppl 6):1165-1171. doi:[10.1289/ehp.961041165](https://doi.org/10.1289/ehp.961041165)

Spatari G, Allegra A, Carrieri M, Pioggia G, Gangemi S. Epigenetic Effects of Benzene in Hematologic Neoplasms: The Altered Gene Expression. *Cancers*. 2021;13(10):2392. doi:[10.3390/cancers13102392](https://doi.org/10.3390/cancers13102392)

Steineck G, Hagman U, Gerhardsson M, Norell SE. Vitamin A supplements, fried foods, fat and urothelial cancer. A case-referent study in Stockholm in 1985-87. *Int J Cancer*. 1990;45(6):1006-1011. doi:[10.1002/ijc.2910450604](https://doi.org/10.1002/ijc.2910450604)

Steinmaus C, Smith AH, Jones RM, Smith MT. Meta-analysis of benzene exposure and non-Hodgkin lymphoma: biases could mask an important association. *Occup Environ Med*. 2008;65(6):371-378. doi:[10.1136/oem.2007.036913](https://doi.org/10.1136/oem.2007.036913)

Steinmaus C, Castriota F, Ferreccio C, et al. Obesity and excess weight in early adulthood and high risks of arsenic-related cancer in later life. *Environmental Research*. 2015;142:594-601. doi:[10.1016/j.envres.2015.07.021](https://doi.org/10.1016/j.envres.2015.07.021)

Stewart RD, Dodd HC. Absorption Of Carbon Tetrachloride, Trichloroethylene, Tetrachloroethylene, Methylene Chloride, And 1,1,1-Trichloroethane Through The Human Skin. *Am Ind Hyg Assoc J*. 1964;25:439-446. doi:[10.1080/00028896409342621](https://doi.org/10.1080/00028896409342621)

Stopper H, Mueller SO, Lutz WK. Supra-additive genotoxicity of a combination of γ -irradiation and ethyl methanesulfonate in mouse lymphoma L5178Y cells. *Mutagenesis*. 2000;15(3):235-238. doi:[10.1093/mutage/15.3.235](https://doi.org/10.1093/mutage/15.3.235)

't Mannetje A, De Roos AJ, Boffetta P, et al. Occupation and Risk of Non-Hodgkin Lymphoma and Its Subtypes: A Pooled Analysis from the InterLymph Consortium. *Environ Health Perspect*. 2016;124(4):396-405. doi:[10.1289/ehp.1409294](https://doi.org/10.1289/ehp.1409294)

Talibov M, Lehtinen-Jacks S, Martinsen JI, et al. Occupational exposure to solvents and acute myeloid leukemia: a population-based, case-control study in four Nordic countries. *Scand J Work Environ Health*. 2014;40(5):511-517. doi:[10.5271/sjweh.3436](https://doi.org/10.5271/sjweh.3436)

Vandenberg LN, Rayasam SDG, Axelrad DA, et al. Addressing systemic problems with exposure assessments to protect the public's health. *Environ Health*. 2023;21(Suppl 1):121. doi:[10.1186/s12940-022-00917-0](https://doi.org/10.1186/s12940-022-00917-0)

Varshavsky JR, Rayasam SDG, Sass JB, et al. Current practice and recommendations for advancing how human variability and susceptibility are considered in chemical risk assessment. *Environ Health*. 2023;21(1):133. doi:[10.1186/s12940-022-00940-1](https://doi.org/10.1186/s12940-022-00940-1)

Varshney M, Chandra A, Chauhan LKS, Goel SK. Micronucleus induction by oxidative metabolites of trichloroethylene in cultured human peripheral blood lymphocytes: a comparative genotoxicity study. *Environ Sci Pollut Res*. 2013;20(12):8709-8716. doi:[10.1007/s11356-013-1806-7](https://doi.org/10.1007/s11356-013-1806-7)

Vlaanderen J, Lan Q, Kromhout H, Rothman N, Vermeulen R. Occupational benzene exposure and the risk of lymphoma subtypes: a meta-analysis of cohort studies incorporating three study quality dimensions. *Environ Health Perspect*. 2011;119(2):159-167. doi:[10.1289/ehp.1002318](https://doi.org/10.1289/ehp.1002318)

Vlaanderen J, Straif K, Ruder A, et al. Tetrachloroethylene exposure and bladder cancer risk: a meta-analysis of dry-cleaning-worker studies. *Environ Health Perspect*. 2014;122(7):661-666. doi:[10.1289/ehp.1307055](https://doi.org/10.1289/ehp.1307055)

Vlaanderen J, Taeger D, Wellman J, Keil U, Schüz J, Straif K. Extended cancer mortality follow-up of a German rubber industry cohort. *J Occup Environ Med*. 2013;55(8):966-972. doi:[10.1097/JOM.0b013e31829540f4](https://doi.org/10.1097/JOM.0b013e31829540f4)

Wang R, Zhang Y, Lan Q, et al. Occupational Exposure to Solvents and Risk of Non-Hodgkin Lymphoma in Connecticut Women. *American Journal of Epidemiology*. 2008;169(2):176-185. doi:[10.1093/aje/kwn300](https://doi.org/10.1093/aje/kwn300)

Watanabe PG, Gehring PJ. Dose-dependent fate of vinyl chloride and its possible relationship to oncogenicity in rats. *Environ Health Perspect*. 1976;17:145-152. doi:[10.1289/ehp.7617145](https://doi.org/10.1289/ehp.7617145)

Weisel CP, Jo WK. Ingestion, inhalation, and dermal exposures to chloroform and trichloroethene from tap water. *Environmental Health Perspectives*. 1996;104(1):48-51. doi:[10.1289/ehp.9610448](https://doi.org/10.1289/ehp.9610448)

Wexler P, Anderson BD. *Encyclopedia of Toxicology*. Elsevier; 2005.

Whysner J, Ross PM, Williams GM. Phenobarbital mechanistic data and risk assessment: enzyme induction, enhanced cell proliferation, and tumor promotion. *Pharmacol Ther*. 1996;71(1-2):153-191. doi:[10.1016/0163-7258\(96\)00067-8](https://doi.org/10.1016/0163-7258(96)00067-8)

Williams PRD, Sahmel J, Knutsen J, Spencer J, Bunge AL. Dermal absorption of benzene in occupational settings: Estimating flux and applications for risk assessment. *Critical Reviews in Toxicology*. 2011;41(2):111-142. doi:[10.3109/10408444.2010.530224](https://doi.org/10.3109/10408444.2010.530224)

Wittlingerová Z, Macháčková J, Petruželková A, Zimová M. Occurrence of perchloroethylene in surface water and fish in a river ecosystem affected by groundwater contamination. *Environ Sci Pollut Res Int*. 2016;23(6):5676-5692. doi:[10.1007/s11356-015-5806-7](https://doi.org/10.1007/s11356-015-5806-7)

Wong O, Whorton MD, Folliart DE, Ragland D. An industry-wide epidemiologic study of vinyl chloride workers, 1942–1982. *American Journal of Industrial Medicine*. 1991;20(3):317-334. doi:[10.1002/ajim.4700200305](https://doi.org/10.1002/ajim.4700200305)

Xie S, Friesen MC, Baris D, et al. Occupational exposure to organic solvents and risk of bladder cancer. *J Expo Sci Environ Epidemiol*. 2024;34(3):546-553. doi:[10.1038/s41370-024-00651-4](https://doi.org/10.1038/s41370-024-00651-4)

Zhang L, Bassig BA, Mora JL, et al. Alterations in serum immunoglobulin levels in workers occupationally exposed to trichloroethylene. *Carcinogenesis*. 2013;34(4):799-802. doi:[10.1093/carcin/bgs403](https://doi.org/10.1093/carcin/bgs403)

Zhang L, Rothman N, Li G, et al. Aberrations in chromosomes associated with lymphoma and therapy-related leukemia in benzene-exposed workers. *Environmental and Molecular Mutagenesis*. 2007;48(6):467-474. doi:[10.1002/em.20306](https://doi.org/10.1002/em.20306)

Zhang Y, Chen D, Shi R, et al. Indoor volatile organic compounds exposures and risk of childhood acute leukemia: a case-control study in shanghai. *Journal of Environmental Science and Health, Part A*. 2020;56(2):190-198. doi:[10.1080/10934529.2020.1861903](https://doi.org/10.1080/10934529.2020.1861903)

Zhou YH, Cichocki JA, Soldatow VY, et al. Editor's Highlight: Comparative Dose-Response Analysis of Liver and Kidney Transcriptomic Effects of Trichloroethylene and Tetrachloroethylene in B6C3F1 Mouse. *Toxicological Sciences*. 2017;160(1):95-110. doi:[10.1093/toxsci/kfx165](https://doi.org/10.1093/toxsci/kfx165)

Water Modeling Data – Appendices I, J, H1 & K to Morris Maslia's report in the above-captioned matter, dated October 25, 2024

Deposition of Frank Bove

Deposition of Morris Maslia

The Camp Lejeune Justice Act

Westberry v. Gislaved Gummi AB, 178 F.3d 257 (4th Cir. 1999)

Nix v. Chemours Co. FC, 2023 WL 6471690 (E.D.N.C. Oct. 4, 2023)

Lightfoot v. Georgia-Pacific Wood Prods., LLC, 2018 WL 4517616 (E.D.N.C. Sept. 20, 2018)

Yates v. Ford Motor Co., 113 F. Supp. 3d 841 (E.D.N.C. 2015)

Dew v. E.I. Du Pont de Nemours & Co., 2024 WL 4349883 (E.D.N.C. Sept. 30, 2024)

In re Lipitor (Atrovastatin Calcium) Mktg., Sales Practices & Prods. Lia. Litig., 892 F.3d 624 (4th Cir. 2018)

Order, *In re: Camp Lejeune Water Litigation*, No. 7:23-CV-897, Dkt. No. 227 (E.D.N.C. June 5, 2024)

Order, *In re: Camp Lejeune Water Litigation*, No. 7:23-CV-897, Dkt. No. 247 (E.D.N.C. June 28, 2024)

All facts and data listed herein are either identified by bates number or are publicly available to and accessible by Defendant United States of America.

Dr. Bird reserves the right to review and consider additional facts, data and publications;

Dr. Bird reserves the right to consider the report of any other witness in this action; and

Dr. Bird reserves the right to supplement this list of reliance files.