

Exponent®
Engineering & Scientific Consulting

Pamela Dopart, Ph.D., CIH

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Professional Profile

Dr. Dopart is an environmental and occupational health scientist and certified industrial hygienist who specializes in exposure assessment methods to inform epidemiologic studies and health risk assessments. She has experience designing, conducting, and evaluating exposure studies in occupational and environmental settings and for consumer and personal care products, and has developed estimates of exposure for a wide range of agents, including benzene, chlorinated solvents, formaldehyde, , lead and other metals, phthalates, and volatile organic compounds (VOCs). Dr. Dopart also has experience developing and evaluating targeted human health risk evaluations in accordance with EPA TSCA guidance and has served as a study coordinator on TSCA Section 4 Test Orders for occupational monitoring studies and consumer product emission testing.

Dr. Dopart also has experience in the assessment of exposure to extremely low frequency (ELF) and radiofrequency (RF) electromagnetic fields (EMF) in relation to potential human health effects and has served as an expert witness in addressing scientific research on EMF exposure and human health. Dr. Dopart's work also often involves synthesizing and interpreting epidemiologic literature and she has co-authored several systematic literature reviews of epidemiologic research.

Prior to joining Exponent, Dr. Dopart was in the Occupational and Environmental Epidemiology branch of the Division of Cancer Epidemiology and Genetics at the National Cancer Institute. Her research focused on improving methods for assessing occupational and environmental exposures for epidemiologic studies of cancer.

Dr. Dopart was awarded her Ph.D. in Environmental Health Sciences by The Johns Hopkins Bloomberg School of Public Health. Her dissertation research examined statistical methods for estimating missing or incomplete exposure data using an occupational cohort of naval shipyard workers. She also received an M.P.H. in Environmental Health Sciences, with a concentration in Industrial Hygiene, from the University of Michigan School of Public Health. She earned a certificate in health risk assessment from the Johns Hopkins' Risk Sciences and Public Policy program. She has presented her work at various national and international conferences, published in peer-reviewed scientific journals, and is an active member of the American Industrial Hygiene Association.

Academic Credentials & Professional Honors

Ph.D., Environmental Health Sciences, John Hopkins Bloomberg School of Pub Health, 2015

M.P.H., Environmental Health Sciences, University of Michigan, Ann Arbor, 2008

B.S., Chemistry, James Madison University, 2006

NCI Director's Intramural Innovation Award, 2017

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American Industrial Hygiene Conference and Exposition Student Sponsorship, 2014

Johns Hopkins School of Public Health Morgan-James Scholarship Fund, 2013

3M Personal Safety Division's Occupational Health and Safety Scholarship, 2013

University of Michigan School of Public Health Marvin Selin Memorial Scholarship, 2008

American Industrial Hygiene Foundation Ralph G. Smith Scholarship, 2007

Licenses and Certifications

Certified Industrial Hygienist (CIH)

Toxicology Aspects Certification

Prior Experience

Postdoctoral Fellow, Division of Cancer Epidemiology and Genetics, National Cancer Institute, 2015-2018

Associate Health Scientist, ChemRisk, 2008-2010

Industrial Hygiene Intern, Sandia National Laboratories, 2007

Professional Affiliations

American Industrial Hygiene Association

Product Stewardship Society

American Conference of Governmental Industrial Hygienists

Institute of Electrical and Electronics Engineers

International Committee on Electromagnetic Safety

Publications

Dahlberg S, Chang ET, Weiss SR, Dopart P, Gould E, Ritchey ME. Use of Contrave, Naltrexone with Bupropion, Bupropion, or Naltrexone and Major Adverse Cardiovascular Events: A Systematic Literature Review. Diabetes, Metabolic Syndrome and Obesity 2022; 29(15):3049-3067.

Mehta, H., Nguyen, V., Barthelmes, D. et al. Outcomes of Over 40,000 Eyes Treated for Diabetic Macula Edema in Routine Clinical Practice: A Systematic Review and Meta-analysis. Advances in Therapy 2022; 39:5376–5390.

Bailey WH, Cotts BRT, Dopart PJ. Wireless 5G radiofrequency technology - An overview of small cell exposures, standards and science. IEEE Access. 2020 Aug; 8:140792-140797. doi:0.1109/ACCESS.2020.3010677.

Dopart PJ, Locke SJ, Cocco P, Bassig BA, Josse PR, Stewart PA, Purdue MP, Lan Q, Rothman N, Friesen MC. Estimation of source-specific occupational benzene exposure in a population-based case-control study of non-Hodgkin lymphoma. Annals of Work Exposures and Health 2019; 63(8):842-855.

Sauvé JF, Ramsay JM, Locke SJ, Dopart PJ, Josse PR, Zaebst DD, Albert PS, Cantor KP, Baris D, Jackson BP, Karagas MR, Hosain GM, Schwenn M, Johnson A, Purdue MP, Koutros S, Silverman DT, Friesen MC. Validity of retrospective occupational exposure estimates of lead and manganese in a case-control study. Occupational and Environmental Medicine 2019; 76(9):680-687.

Callahan CL, Friesen MC, Locke SJ, Dopart PJ, Stewart PA, Schwartz K, Ruterbusch JJ, Graubard BI, Chow WH, Rothman N, Hofmann JN, Purdue MP. Case-control investigation of occupational lead exposure and kidney cancer. Occupational and Environmental Medicine 2019;76(7):433-440.

Callahan CL, Locke SJ, Dopart PJ, Stewart PA, Schwartz K, Ruterbusch JJ, Graubard BI, Rothman N, Hofmann JN, Purdue MP, Friesen MC. Decision rule approach applied to estimate occupational lead exposure in a case-control study of kidney cancer. American Journal of Industrial Medicine 2018; 61(11):901-910.

Dopart PJ, Friesen MC. New opportunities in exposure assessment of occupational epidemiology: use of measurements to aid exposure reconstruction in population-based studies. Current Environmental Health Reports 2017; 4(3):355-363.

Madl, AK, Hollins DM, Devlin KD, Donovan EP, Dopart PJ, Scott PK, Perez AL. Airborne asbestos exposures associated with gasket and packing replacement: A simulation study and meta-analysis. Regulatory Toxicology and Pharmacology 2014; 69(3):304-319.

Cowan DM, Dopart P, Ferracini T, Sahmel J, Merryman K, Gaffney S, Paustenbach DJ. A cross-sectional analysis of reported corporate environmental sustainability practices. Regulatory Toxicology and Pharmacology 2010; 58(3):524-538.

Conference Abstracts

Dopart P and Kalmes R. Addressing a TSCA test order: Guidance for OEHS Professionals. American Industrial Hygiene Association (AIHA) Connect 2024. Columbus, OH. May 21, 2024.

Dopart P, DeLeo P, and Kalmes R. How your exposure data may be used in TSCA risk evaluations. American Industrial Hygiene Association (AIHA) Connect 2024. Columbus, OH. May 20, 2024.

Dopart P, Sheehan P. Ethylene Oxide Exposure: Use of New Data to Inform Risk Management Practices. American Industrial Hygiene Conference & Exhibition (AIHce). Phoenix, AZ, May 24, 2023.

Dopart, P, Ames, A. Perspectives on Preparation for the CIH Exam. American Industrial Hygiene Conference & Exhibition (AIHce). Virtual, May 25, 2021.

Dopart PJ, Katki HA, Friesen MC. Evaluating differences in rater agreement between occupational subgroups to identify where to prioritize additional expert assessments. Poster presentation, International Society of Exposure Science Annual Meeting. Virtual, September 21-22, 2020.

Gauthier A, Dopart P, Freeman E. Strategies for risk prioritization of large product lines. Product Stewardship Conference (PSX). Virtual, September 15, 2020.

Dopart PJ, Cotts BRT. Mechanisms underlying interference to cardiovascular implantable electrical devices. Health Physics Society Midyear Meeting and Exhibition. Bethesda, MD, January 26-29, 2020.

Dopart P, Freeman E. Practical guide to evaluating dermal exposures to your consumer products. Product Stewardship Conference. Columbus, OH, September 10, 2019.

Dopart PJ, Chee EML, Curriero FC, Navas-Acien A, Matanoski GM, Lees PSJ. Systematic evaluation of bias associated with a multiple imputation approach for estimating missing exposure data. International

Society of Exposure Science and International Society for Environmental Epidemiology Joint Meeting. Ottawa, Canada, August 26-30, 2018.

Dopart PJ, Ji BT, Xue S, Lu W, Stewart PA, Katki HA, Friesen MC. Prioritizing use of multiple experts in occupational exposure assessments using mean risk stratification. Poster presentation, Society for Epidemiologic Research 50th Annual Meeting, Seattle, WA, 2017.

Dopart PJ, Purdue MP, Locke SJ, Bassig BA, Ji BT, Xue S, Chow W, Lan Q, Rothman N, Friesen MC. Combining expert-based exposure intensity ratings with quantitative measurement data to estimate historical trichloroethylene exposure in a prospective population-based cohort. Poster presentation, DCEG Fellows' Training Symposium, Bethesda, MD, 2016.

Dopart PJ, Chee EML, Curriero FC, Navas-Acien A, Matanoski GM, Lees PSJ. Using multiple imputation to estimate missing radiation exposure data in an occupational cohort of naval shipyard workers. Poster presentation, Johns Hopkins Bloomberg School of Public Health EHS Research Retreat, Baltimore, MD, 2015.

Dopart PJ, Dalton PH, Maute C, Lees PSJ. Understanding factors related to between- and within-subject variation in an effort to better define SEGs. 23rd International Conference on Epidemiology in Occupational Health (EPICOH), Utrecht, The Netherlands, 2013.

Dopart PJ, Dalton PH, Maute C, Lees PSJ. Exploration of variation in SEGs in an effort to reduce exposure misclassification. 22nd Annual Meeting of the International Society of Exposure Science, Seattle, WA, 2012.

Dopart PJ. Exposure to electromagnetic fields: effectively identifying quality publications and communicating the science. Oral presentation at the Florida American Industrial Hygiene Association Local Section and Florida Chapter of the Health Physics Society Fall 2019 Joint Meeting, Cape Canaveral, FL, October 18, 2019.

Invited Presentations

Dopart P. Reconstructing the unknown: Approaches for developing retrospective exposure estimates. Oral presentation at the AIHA & ASSP Chesapeake/Potomac Health and Safety conference, Laurel, MD, March 16, 2023.

Dopart PJ. Exposure to Electromagnetic Fields: Effectively Identifying Quality Publications and Communicating the Science. Oral presentation at the AIHA/FCHPS Fall 2019 Joint Meeting, October 18, 2019.

Dopart PJ. How to talk with stakeholders about EMF and health concerns. Oral presentation at the EUCI Best Practices in Public Engagement for Energy Projects conference, Waltham, MA, October 9, 2019.

Dopart PJ. Using multiple imputation to estimate missing radiation exposures. Oral presentation (guest lecture) in Methods in the Exposure Sciences, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, April 12, 2016.

Dopart PJ. Exposure, dose-response, and risk assessment. Oral presentation (guest lecture) in Introductory Principles of Environmental Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, February 6, 2014.

Dopart PJ. Toxicity potential of chemicals commonly found in our environment. Oral presentation (guest lecture) for California College of the Arts, San Francisco, CA, March 4, 2010.

Dopart PJ. Toxicity potential of chemicals commonly found in building materials. Oral presentation (guest lecture) for Academy of Art University, San Francisco, CA, March 3, 2009.