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David G. Dodge, M.S., DABT, CIH

Principal

Mr. Dodge is a principal at Gradient with a versatile skill set in the human health risk sciences. He is board-certified in both toxicology and industrial hygiene. On behalf of clients in law, industry, and government, Mr. Dodge has characterized current and historical exposure to and health risks from a diverse array of chemical agents in products, workplaces, and the environment. Mr. Dodge received a Master's of Science in Public Health from San Diego State University and is a primary or participating author of over a dozen published scientific papers and over 30 presentations at scientific conferences or seminars.

Areas of Expertise

- Toxicological Assessments
- Industrial Hygiene
- Human Health Risk Assessment
- Historical State of Knowledge
- Risk Communication

Services

- Toxicology & Risk Sciences
- Occupational Health & Safety
- Product Safety Assessment
- Product Liability

Education

- M.S., Public Health/Environmental Health Sciences, San Diego State University
- B.A., Biological Sciences, University of California, Santa Barbara
- Certified Industrial Hygienist
- Diplomate of the American Board of Toxicology

Selected Projects

Asbestos: Analyzed exposure, health risks, and historical state-of-knowledge issues in the context of claims of personal injury from exposure to asbestos in various industries and settings. These include workers in maritime (operating ship, shipyard, and port), steel, foundry, chemical, mining/milling, automotive, and construction industries,and general population building occupants and do-it-yourselfers.

Industrial Hygiene and Standard of Care: Evaluated potential worker exposures to trichloroethylene at a national laboratory and addressed the actions of the employer in a historical context.

COVID Insurance Recovery: Evaluated the evolving science and guidance regarding SARS-CoV-2 fomite transmission, cleaning and disinfecting, and ventilation in the context of a customer environment.

Oil Spill Response Analysis: Evaluated potential exposures to oil spill-related chemicals among oil spill recovery workers and residents and addressed standard of care actions.

Air Monitoring Study: Performed air sampling for lead at an industrial services company facility employing a lead-containing compound.

Causation Assessment: Evaluated whether exposure to solvents in indoor air, allegedly originating from a flooring product, could have been causally related to claimed health effects.

Developmental and Reproductive Toxicants (DART) Analyses: Evaluated possible health effects to pregnant workers and their offspring from *in utero* exposures to chemicals in the workplace. The assessments included a rapid review of the toxicology literature to determine whether the chemicals in question were DART agents, as well as an estimation of worker doses and overall hazard indices.

Data Analysis and Risk Communication: Analyzed occupational airborne lead, cadmium, and arsenic data and exposure controls in an industrial facility, and assisted with risk communications to workers.

Selected Publications and Presentations

Dodge, DG; Engel, AM; Prueitt, RL; Peterson, MK; Goodman, JE. 2021. "US EPA's TSCA risk assessment approach: A case study of asbestos in automotive brakes." *Inhalation Toxicol.* 33(9-14):295-307.

Dodge, D. 2020. "50 Years Since the OSH Act: OSHA and NIOSH Cancer Policies." Presented as part of a Gradient *Trends* webinar on Occupational Stewardship. October 28.

Hubbard, B; Glowacki, M; **Dodge, D;** Mohar, I. 2020. "Pandora's Box: Protecting Your Offices and Manufacturing Facilities by Ensuring a Safe Environment in a COVID-19 World." Presented as a DRI remote webinar. May 18.

Dodge, DG; Peterson, MK. 2019. "Evaluation of the potential for fibrous talc to cause mesothelioma based on available *in vitro* and *in vivo* animal studies." *Toxicologist* 168 (1) :143. Presented at the Society of Toxicology (SOT) 58th Annual Meeting, Baltimore, MD, March 10-14.