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Rebecca C. Ticknor, M.S.

Senior Toxicologist

Ms. Ticknor is a senior toxicologist with experience in product safety, medical device regulations and biocompatibility, inhalation toxicology, occupational health, and human health risk assessment. She provides technical support for toxic tort litigation and conducts safety and risk assessments for various environmental contaminants, medical devices, and consumer products. Before joining Gradient, Ms. Ticknor worked at a consulting firm where she provided technical support for asbestos, talc, and mold litigation, and performed human health risk assessments on various compounds, including PCBs, solvents, manufacturing leachates, and PM_{2.5}. Ms. Ticknor earned her master's degree from the University of Washington, where she researched the effects of *in utero* exposure to diesel exhaust on the development of atherosclerotic plaque and epigenetic alterations.

Selected Projects

Biological Safety Evaluations: Evaluated medical devices for biological safety to ensure compliance with US FDA and EU regulations and recommended subsequent testing for biocompatibility assessment or justifications to waive testing when feasible.

Skin Sensitization Risk Assessment: Performed hazard assessments and quantitative risk assessments for skin sensitization and irritation after potential exposure to constituents of various consumer products designed to be in contact with the skin. Developed exposure levels for potential chemicals of concern intended to protect consumers from adverse skin reactions from contact with the products.

Product Safety Risk Assessment: Determined allowable concentrations of various metals and chemicals in cloth uniforms and metallic jewelry and accessories to prevent adverse reactions from dermal contact and accidental ingestion.

Air Pollution Risk Assessment: Evaluated risk of a variety of cardiovascular, respiratory, and cancer endpoints and county-wide exposure to constituents of air pollution.

TCE, PCE, and 1,1,1-TCA Risk Assessment: Evaluated risk of non-Hodgkin's lymphoma after potential exposure to TCE, PCE, and 1,1,1-TCA from drinking water and bathing water.

Radiation Risk Assessment: Evaluated risks of potential residential exposure to radionuclide contamination in an adjacent landfill, including a variety of cancer and non-cancer human health endpoints and exposure routes.

Selected Publications

Goodman, JE; **Ticknor, RC**; Zhou, J. 2022. "Response: Alternative approaches for systematic review." *Global Epidemiol.* doi:10.1016/j.gloepi.2022.100091.

Goodman, JE; **Ticknor, RC**; Zhou, J. 2022. "Systematic review of perchloroethylene and non-Hodgkin's lymphoma." *Global Epidemiol.* 4:100077. doi:10.1016/j.gloepi.2022.100077.

Areas of Expertise

- Human & Environmental Toxicology
- Product Safety
- Medical Device Regulations & Biocompatibility
- Inhalation Toxicology
- Occupational Safety & Health
- Risk Assessment
- Risk Communication

Services

- Toxicology & Risk Sciences
- Biocompatibility Analysis
- Biocompatibility Support
- Product Safety Assessment

Education

- M.S., Environmental Toxicology, University of Washington
- H.B.S., Bioengineering, Oregon State University
- Fundamentals of Engineering in Chemical Engineering