



20 University Road
Cambridge, MA 02138
617-395-5000

Marc A. Nascarella, Ph.D.
Toxicologist
mnascarella@gradientcorp.com

Confidential Client: Led project evaluating the human health risk of an ingestible medical device. Evaluated epidemiology and preclinical *in vivo* and *in vitro* toxicology data to prepare documents used in FDA regulatory filing.

Pharmaceutical Company: Evaluated epidemiology literature on potential use (market penetration) of a drug that is a candidate for EMEA approval in the European Union.

Law Firm: Evaluated the potential lung cancer and mesothelioma risk from exposure to chrysotile asbestos from brakes based on epidemiological studies of vehicle brake repair workers and mode-of-action and toxicology data.

Manufactured Gas Plants: Contributed to an expert report that assessed the state of toxicological knowledge of contaminants released at former MGP sites.

Trade Organization: Contributed to training material used to educate a trade organizations members on the human and ecological health risks of exposure to selenium.

Trade Organization: Assisted in determination of whether linear low-dose extrapolation can be used for non-cancer endpoints. This analysis was submitted for publication in a peer-reviewed journal.

Litigation Involving Pesticide Exposure: In the context of litigation, analyzed whether pesticide exposure was the cause of a specific neurological health effect. The evaluation involved a review of toxicological and epidemiological literature, as well as a reconstruction of potential dose *via* complex exposure pathways.

Regulatory Comment for Arsenic Risk Assessment: Provided technical support to a consortium evaluating the technical validity of US EPA's proposed cancer slope factor (CSF) for inorganic arsenic.

Law Firm: Critically reviewed epidemiology literature of radium and osteosarcoma risk. Determined whether osteosarcoma rates were higher than expected in certain geographic regions in a southern state.

Law Firm: Critically reviewed chemistry, epidemiology and toxicology literature on perchlorate exposure and effect.

Chromium Risk Assessment: Evaluated the relationship between chromium and adverse health effects in litigation that involved residential exposure to chromium (VI).

Arsenic Risk Assessment: Provided litigation support in toxic tort case involving exposure to arsenic in a residential area. Assessed the strength of an association between arsenic exposure and several different health endpoints.

Law Firm: Critically reviewed the epidemiology literature on the role of ionizing radiation in cancer risk in patients receiving radiation therapy, in nuclear energy facility workers, and in patients receiving thorotrast treatments. Examined biological mechanisms for ionizing-radiation induced cancers, including those involving radiation in cigarettes. This work was published in a peer-reviewed journal.

Manufacturer: Critically reviewed literature on lead levels detected in turf fibers on synthetic turf athletic fields.