

Nicole L. Britton
Managing Scientist

Professional Profile

Ms. Nicole L. Britton is a Managing Scientist in Exponent's Health Sciences Center for Epidemiology, Biostatistics and Computational Biology. She has more than 10 years of experience in life sciences consulting on a broad range of issues related to drugs, medical devices, and occupational and environmental exposures.

Ms. Britton has extensive experience in the area of the human health effects of asbestos exposure. Her work in the asbestos field has included evaluating the recognized risk factors and available occupational epidemiology data for a range of exposure scenarios as they relate to mesothelioma, as well as lung, esophageal, and colorectal cancers. This work has included expert preparation and support during testimony. Other areas of experience include the human health effects of exposure to pesticides, methylmercury, trichloroethylene (TCE), and PFOA. She has a strong interest in accurately and clearly communicating scientific information to lay audiences, and also specializes in conducting exhaustive, critical reviews of the state of the science on a given issue.

Prior to joining Exponent, Ms. Britton participated in the management of a large-scale epidemiological meta-analysis of the health of chemical workers, including database design and maintenance and statistical analysis. She also was integral to the preparation of a successful pre-market approval (PMA) application for saline breast implants and the presentation before the FDA-appointed advisory panel.

Academic Credentials and Professional Honors

B.A., Environmental Science, University of Virginia (*high distinction*), 1997

Phi Beta Kappa National Honor Society
Distinguished Majors Program, Department of Environmental Science

Publications

Mink PJ, Adami H-O, Trichopoulos D, MD, Britton NL, Mandel JS. Pesticides and prostate cancer: A review of epidemiologic studies with specific agricultural exposure information. *Eur J Cancer Prev* 2008; 17:97–110.

Goodman M, Barraj LM, Mink PJ, Britton NL, Yager JW, Flanders WD, Kelsh MA. Estimating uncertainty in observational studies of associations between continuous variables: Example of methylmercury and neuropsychological testing in children. *Epidemiol Perspect Innovat* 2007; 4:9.

Greenberg RS, Mandel JS, Pastides H, Britton NL, Rudenko L, Starr TB. A meta-analysis of cohort studies describing mortality and cancer incidence among chemical workers in the United States and Western Europe. *Epidemiology* 2001; 12:727–740.

Prior Experience

Research Associate, The Life Sciences Consultancy, 1999–2001

Research Associate, ENVIRON Corporation, 1997–1999

Research Assistant, Department of Environmental Sciences, University of Virginia, 1997

Project Experience

Research

Participated in the census and recruitment phase of a community biomonitoring study. Included communication of study objectives and participation requirements and study documentation.

Participated in the management a meta-analysis of the mortality and morbidity experience of chemical workers. Designed and maintained an Access database and performed statistical analysis in Stata.

Engaged in research linking precipitation chemistry data and atmospheric transport. Maintained and manipulated large multi-year data sets of daily precipitation and atmospheric variable values for use in modeling air parcel back trajectories.

Literature Review Topics

Methylmercury exposure and neurodevelopmental outcomes in children.

Pesticide exposure as a potential risk factor for prostate cancer.

Smoking as a risk factor for histologic types of lung cancer.

Dioxin exposure and nervous system disorders.

Safety and efficacy of three medical devices for PMA application submission. Comprehensive review of the published literature and presentation of the clinical trial data.

Litigation Support

Management of large-scale discovery document reviews, resulting in population of document databases for use by the client. Oversight of teams of technical staff members and quality-checking.

Evaluation of the epidemiology literature regarding occupational and environmental asbestos exposure and cancer causation. Preparation of epidemiology experts for trial testimony.

Trichloroethylene exposure and disease causation.