

Dimitri J. Fillos, M.P.H.

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Professional Profile

Mr. Fillos is an Associate Health Scientist with ChemRisk. His training and expertise include chronic and infectious disease epidemiology, biostatistics, clinical trials administration, quality control/quality assurance monitoring, consultation, and proficiency testing. Mr. Fillos has managed small and large scale clinical trials to evaluate immunogenicity and toxicity of experimental vaccines for diseases such as HIV, Hepatitis C, Alzheimer's disease, and anthrax intoxication. Additionally, he has conducted statistical analyses of concentrations of various chemicals, such as polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs) in food products. He has extensive experience in method development, study design, and database building, and he has conducted statistical analyses using data collected as part of the National Health and Nutrition Examination Survey (NHANES) to describe referent levels of chemicals in the general population. Mr. Fillos also specializes in IRB compliance as well as data analysis and report writing of human biomonitoring studies for persistent organic compounds including polychlorinated biphenyls (PCBs). He is regularly involved in litigation support and literature reviews for a variety of exposures to evaluate environmental and occupational health risks.

Education and Degrees Earned

M.P.H., Epidemiology, Emory University, 2008
B.S., Biology, University of Georgia, 2000

Professional Associations

International Society for Environmental Epidemiology
American Public Health Association

Professional Experience

Litigation Support

Managed litigation-related support work and prepared various documents and expert reports on cases related to asbestos exposures from phenolic molding-containing plastics, friction products including brakes and clutches, and floor tiles.

Provided support through the review of literature, case materials, and the preparation of various documents for cases related to exposures from dioxins, PCBs, lead, microbes, chlorine gas, and other toxic contaminants.

Data Handling and Statistical Analyses

Compiled, reviewed, and analyzed 3000+ industrial hygiene samples collected at an oil refinery from 1972 to 2000 to describe the company's historical industrial hygiene program and demonstrate compliance to government standards.

Measured concentrations of the 209 PCB congeners in various seafood products from countries around the world. Attempted to characterize and explain variation in PCB contaminations in edible food by geographic regions.

Coordinated all laboratory and administrative activities involving a Phase II human clinical trial for the development of a second-generation anthrax vaccine in collaboration with a private pharmaceutical company. Tasks included protocol design and database development, data maintenance, and analysis of 5+ years worth of data leading to presentations and publications. Results were used to establish vaccine dose response and determine efficacy and toxicity.

Conceptualized, developed, and implemented use of an MS Access database for the storage of 7+ years of accumulated human and non-human primate data as part of the Anthrax Vaccine Research Program (AVRP), a large scale government funded Phase III clinical trial. Aided in the preparation of quarterly and interim reports for further study of vaccine reactogenicity and efficacy; evaluated alternative routes and schedules of administration to reduce adverse events yet maintain vaccine effectiveness.

Conducted extensive analysis on blood and tissue data generated from non-human primate cohorts enrolled in various vaccine studies that lead to presentations and publications.

Public, Environmental, and Occupational Health

Investigated and assessed biomonitoring data of local residents potentially exposed to dioxin-like compounds as a result of living near a manufacturing facility.

Collaborated with state public health departments, private industry, and international laboratories as part of the Newborn Screening Quality Assurance Program, National Center for Environmental Health, Centers for Disease Control and Prevention to create quality control/quality assurance standards, ensure regulatory compliance, and promote valid, consistent testing results. Produced quarterly evaluations and generated reports for performance testing of 200+ Newborn Screening laboratories worldwide.

Developed a laboratory-based method of detecting a specific serum-based protein biomarker for the identification and diagnosis of iron deficiency anemia (IDA), the most common nutritional deficiency in the world. Tasks included method conception, design, development, and validation through a series of quality control tests. When combined with other measures of chronic infection and inflammation, the method is useful and robust and can be used to facilitate identification of IDA in epidemiologic health studies.

Calculated risks associated with various environmental and occupational exposures and interpreted risk and hazard ratios through meta-analyses of literature. Coordinated Institutional Review Board (IRB) projects at the federal government as well as academic levels to meet standards in human subject regulatory compliance. Trained in budget and contract agreement.

Worked with Dekalb County Center for Public Health Preparedness (Atlanta, GA) outreach and response team to identify community-based public health concerns, such as refugee health, and provide emergency response leadership and expertise to emerging environmental and bioterrorism threats.

Publications

Fillos, D., L. Nguyen, W. Luksemburg, D. Paustenbach, L. Scott. 2009. An Investigation of Wild-Caught and Farm-Raised Shrimp Samples with High Concentrations of Polychlorinated Biphenyls. *Organohalogen Compounds*. In press.

Fillos, D., L. Nguyen, W. Luksemburg, D. Paustenbach, L. Scott. 2009. Distribution of Polychlorinated Biphenyl Concentrations in Wild-Caught and Farm-Raised Shrimp by Geographic Region. *Organohalogen Compounds*. In press.

Fillos, D., L. Nguyen, W. Luksemburg, D. Paustenbach, L. Scott. 2009. Concentrations of Polychlorinated Biphenyls in Seafood Products from the U.S. Retail Market. *Organohalogen Compounds*. In press.

Hollins, D., M. McKinley, C. Williams, A. Wiman, **D. Fillos**, P. Chapman, A. Madl. 2009. Beryllium and lung cancer: A weight of evidence evaluation of the toxicological and epidemiological literature. *Crit Rev Tox.* 39(S1): 1-32.

Ibegbu, C., Y. Xu, **D. Fillos**, H. Radziewicz, A. Grakoui, A. Kourtis. 2009. Differential expression of CD26 on virus-specific CD8⁺ T cells during active, latent and resolved infection. *Immunology.* 126(3):346-353.

Cheng, P., B. Snyder, **D. Fillos**, C. Ibegbu, A. Huang, A. Chan. 2008. Postnatal stem/progenitor cells derived from the dental pulp of adult chimpanzee. *BMC Cell Bio.* 9(20):22 April 2008.

Laughlin, E.M., J. Miller, E. James, **D. Fillos**, C. Ibegbu, R. Mittler, R. Akondy, W. Kwok, R. Ahmed, G. Nepom. 2007. Antigen-Specific CD4+ T-cells Recognize Epitopes of Protective Antigen Following AVA Vaccination. *Inf and Imm.* 75(4):1852-1860.

Invited Lectures

Fillos, Dimitri. Correlates of Protection Sub-study: T-cell Epitope Mapping. Presented at the Anthrax Vaccine Research Program's Seventh Annual Investigator's Meeting. October 25, 2006. Decatur, GA.

Fillos, Dimitri. Overview: Method Development for Detecting Transferrin Receptor in Dried Blood Spots: A Special Project of the Newborn Screening Quality Assurance Laboratory. Presented at the Association of Public Health Laboratories Sub-Committee Meeting. January 15, 2002. Atlanta, GA.

Published Abstracts

Fillos, D., C.C. Ibegbu, M. Fernandez, S. Sen, K. Luehrs, D. Levesque, R.S. Mittler. 2007. Mapping Human and Rhesus Macaque Immunodominant CD4 T-cell Restricted Epitopes of Bacillus Anthracis Protective Antigen (PA). Presented at the 2007 International "Bacillus-ACT07" Conference. June 17-21, 2007. Oslo, Norway.

Ibegbu, C.C., Y-X. Xu, M.L. Fernandez, S. Sen, **D. Fillos**, K. Luehrs, R. Ahmed, R.S. Mittler. 2005. Detection of Protective Antigen-specific T-Cells in AVA-Vaccinated Non-Human Primates. Presented at the 2005 International "Bacillus-ACT05" Conference. September 25-29, 2005. Santa Fe, NM.

Fillos, D.J., J.V. Mei, W.H. Hannon. 2002. Method Development and Validation for Serum Transferrin Receptor in Dried Blood Spots: A Marker for Iron Deficiency Anemia. Presented at the 2002 Newborn Screening and Genetic Testing Symposium. November 4-7, 2002. Phoenix, AZ.