

Lisa M. Sweeney, Ph.D., DABT, CHMM

Henry M. Jackson Foundation for the Advancement of Military Medicine

Lisa M. Sweeney, Ph.D., DABT, CHMM, is a Senior Scientist with the Henry M. Jackson Foundation for the Advancement of Military Medicine, currently on detail to the Naval Medical Research Unit—Dayton. Dr. Sweeney has a broad range of experience in the application of toxicology, chemistry, and engineering to problems in the health and environmental sciences. She has over 20 years of experience in risk assessment, pharmacokinetics, and biochemical engineering from a variety of private sector and non-profit backgrounds. She is an author of over 50 peer-reviewed publications, with over 30 publications as first author.

Dr. Sweeney's experience has focused on the development and refinement of physiologically-based pharmacokinetic (PBPK) models and their application to risk assessment and experimental design. Other risk assessment experience includes preparing toxicological reviews and calculating human health risk for children and adults. In her five years at NAMRU—Dayton she has led efforts to develop and apply PBPK models of munitions compounds (RDX and insensitive munitions), fire extinguishing gases, and metal nanoparticles to human health risk assessment, worked on development of new DOD-wide standards for lead, developed new standards for chemical exposure in pressurized rescue modules, and served as the principal investigator on a project to develop and analyze data sets to evaluate methodologies for toxicity prediction under conditions of non-constant exposure.