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Summary
For the past twelve years, Dr. Pekar has worked in EPA's Office of Air Quality Planning and Standards (OAQPS) in Research Triangle Park, NC. While at OAQPS, he has played a lead role in designing and implementing human health risk assessments and regulatory impact analyses as part of regulatory review for criteria air pollutants including ozone, particular matter and lead. More recently, he participated in the risk assessment and regulatory impact analysis completed in support of efforts by EPA to regulate mercury emissions from power plants. Dr. Pekar's work at EPA has involved application of cutting edge methods in probabilistic risk assessment, epidemiological-based population (incidence) risk modeling, multi-pathway exposure and risk assessment and economic valuation of health impacts. Dr. Pekar has played a central role in briefing EPA management (at all levels) with regard to risk and benefits analyses in the context of national-scale regulatory review and has also appeared frequently before the Science Advisory Board (SAB) to explain an at times defend the Agency's risk assessments as part of ongoing peer review by the SAB. Prior to working at EPA, Dr. Pekar worked at Research Triangle Institute (RTI) where he designed and implemented multi-pathway risk assessments and worked on the design of multi-pathway risk modeling software. Dr. Pekar holds a PhD and MSPH in Environmental Management and Policy, both from the School of Public Health at the University of North Carolina in Chapel Hill.

Education:
PhD Environmental Management and Policy (School of Public Health, UNC Chapel Hill) 2003. Research focus – application of spatial (GIS) analysis in human health risk assessment
MSPH Environmental Management and Policy (School of Public Health, UNC Chapel Hill) 1994. Research focus – probabilistic risk assessment in the context of setting remediation goals for Superfund sites.
BA (dual) Geography and Economics (UNC Chapel Hill) 1990 (pre-med focus with significant chemistry and biology coursework, including p-chem, biochem, organic chem, genetics and physiology)

Work Experience
- 2003 to present: US EPA (OAQPS) (RTP NC)
- 1998-2003 Research Triangle Institute (RTP NC)
- 1994-1997 EA Engineering and Technology (Washington DC)
- 1992-1994 Intern at Research Triangle Park

Selected Publications and Presentations
Lead: Human Exposure and Health Risk Assessments for Selected Case Studies Volume I. Human Exposure and Health Risk Assessments - Full-scale EPA-452/R-07-014a October 2007 (significant authorship, document peer-reviewed by SAB and subjected to significant public comment)

Health Risk and Exposure Assessment for Ozone Final Report EPA-452/R-14-004a August 2014 (significant authorship, document peer-reviewed by SAB and subjected to significant public comment)

Regulatory Impact Analysis of the Proposed Revisions to the National Ambient Air Quality Standards for Ground-Level Ozone March, 2015 (significant authorship, document subject to rigorous review by OMB and public)

EPA's Risk Assessment Forum White Paper: Probabilistic Risk Assessment Methods and Case Studies EPA/100/R-14/004 July 2014 (authorship)

Society for Risk Analysis Annual Meeting (2014) Symposium: Implementation of EPA's HHRA Framework, Part I (EPA's Framework for Human Health Risk Assessment for Informed Decision: Risk Assessments Informing Air Quality Decisions), December 2014

Society for Risk Analysis Annual Meeting (2014) Symposium II. The Use of a Structured Design Approach for Risk Assessment in the Regulatory Context - the Example of EPA's National-Scale Hg Risk Assessment for Electric Generating Units. December 2014