

Deborah K. Watkins, MS
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PROFESSIONAL EXPERIENCE:

January 2007-Present

Watkins Consulting, Arlington, VA

Proprietor

- Designed and conducted critical reviews of the scientific literature utilizing evidence-based methodology.
- Critically reviewed and evaluated the scientific literature related to exposure methodologies in occupational and environmental epidemiology.
- Researched and prepared manuscript on The Air Force Health Study.
- Evaluated methods proposed for assessing herbicide exposure of Allied troops during defoliation missions during the Vietnam War.
- Researched and prepared white paper on available federal databases for analysis of nutritional intake and obesity.
- Researched and reviewed archival materials from the Vietnam War era.

October 2006-January 2007

The Sapphire Group, Bethesda, MD

Program Manager, Epidemiologist

- Researched and prepared reports and critical reviews of the epidemiologic literature.

April 2004-October 2006

Exponent, Washington, DC

Managing Scientist/Epidemiologist, Health Sciences Practice

- Researched and critically evaluated the occupational and environmental epidemiology literature.
- Researched and prepared reports and white papers related to disease causation.
- Researched and prepared reports and critical reviews of the epidemiologic literature related to cancer, heart disease and diabetes.
- Evaluated the scientific literature and prepared reports on exposure assessment methodologies in occupational and environmental epidemiology.
- Evaluated historical data for use in exposure reconstruction for epidemiological studies.
- Developed, organized and participated in continuing legal education seminar on “Understanding Statistical Issues in Health and Environmental Litigation”.
- Reviewed clinical and public health databases.

June 2003-April 2004

BBL, Inc., Reston, VA

Senior Scientist II

- Responsible for the critical review and preparation of reports related to disease causation.

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- Researched and prepared reports and critical reviews of the epidemiologic literature related to cancer and non-cancer endpoints.
- Researched and prepared seminar presentations related to various epidemiologic issues for clients.

November 2002 – June 2003

U.S. Department of Labor, Occupational Safety and Health Administration, Directorate of Standards and Guidance, Office of Chemical Hazards-Metals, Washington, DC

Health Scientist

- Responsible for the review and analysis of the epidemiologic literature for the development of draft and final OSHA regulations and guidance.
- Reviewed and analyzed the cancer epidemiology literature on hexavalent chromium and wrote the cancer epidemiology section of the chromium regulations (promulgated 2006).

October 1983 – November 2002

Georgetown University Medical Center, Department of Family Medicine, Division of Occupational Health Studies:

Research Assistant Professor (1996-2002)

Research Instructor (1993-1996)

Research Associate (1984-1993)

Deputy Director, Division of Occupational Health Studies (1994-2002)

Deputy Director, Division of Biostatistics and Epidemiology (1990-1994)

Research:

- Designed and conducted health studies of worker populations in the man-made vitreous fiber, asphalt roofing manufacturing, asphalt production and chemical industries.
- Developed and implemented a methodology for reconstruction of historic exposures for workers in manufacturing environments.
- Senior author of the first study of women and minorities in the fiberglass textile manufacturing industry.
- Co-directed two nation-wide surveillance programs to monitor potential health effects in the working environment.
- Designed, implemented and supervised a nation-wide interview survey of approximately 7,000 retirees to obtain data on demographics, work-history, residence history, smoking and alcohol consumption.
- Designed and conducted feasibility studies in the asphalt roofing manufacturing industry and in the fiberglass end-users industries.
- Evaluated the epidemiologic literature and prepared critical reviews.
- Prepared grant/contract proposals, progress reports, summaries and final reports.
- Ensured compliance with University Institutional Review Board regulations for the protection of human subjects.
- Alternate, Georgetown University Institutional Review Board.

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Teaching:

- Medical Center:
 - Reviewer, Small Group Leader (Substitute), Evidence Based Medicine I (2006 -).
 - Reviewer, Small Group Leader (Substitute), Evidence Based Medicine II (2006-).
 - Lecturer, Biostatistics and Epidemiology (2003-2005).
- Graduate Program in Biostatistics and Epidemiology
 - Co-director, Course: Epidemiologic Research: Applications in Policy, Regulation and Law (1992-1994).
 - Lecturer, Course: Current Issues and Methods in Biostatistics and Epidemiology (1990-1993).
 - Preceptor, Problems in Health Research (1991-1993).
 - Admissions Committee (1991-1994).

February 1982 - May 1983

Pennsylvania Environmental Council and the **Pennsylvania Environmental Research Foundation**, Philadelphia, PA.

Director, Legislative Affairs and Director, Hazardous Waste Management Project.

April 1979 - August 1981

Society for Occupational and Environmental Health, Washington, DC.

Executive Director

June 1972- April 1979

American Public Health Association, Washington, DC.

Production Editor

EDUCATION:

Georgetown University, Washington, DC

M.S. (Biostatistics & Epidemiology)

The George Washington University, Washington, DC

B.A. (Journalism)

FACULTY APPOINTMENT:

Georgetown University

Adjunct Assistant Professor (2002-)

PROFESSIONAL SOCIETIES:

Society for Epidemiologic Research

Society of Professional Journalists

RECOGNITION/AWARDS:

Deborah K. Watkins
Who's Who in America, 2010 edition
Who's Who of American Women, 2010-2011 edition
The World Who's Who of Women, 13th edition.

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PUBLICATIONS:

Buffler, PA, Ginevan ME, Mandel JS and Watkins DK. 2011. The Air Force Health Study: An Epidemiologic Retrospective. *Annals of Epidemiology*, (In Press).

Ginevan ME and Watkins DK. Logarithmic dose transformation in epidemiologic dose-response analysis: Use with caution. *Regul Toxicol Pharmacol*. 58:336–340, 2010.

Ginevan ME, Watkins DK and Ross JH. Assessing Exposure to Allied Ground Troops in the Vietnam War: A Quantitative Evaluation of the Stellman Exposure Opportunity Index Model. *Chemosphere*. 75:1512-1518, 2009.

Ginevan ME, Ross JH and Watkins DK. Assessing Exposure to Allied Ground Troops in the Vietnam War: A Comparison of AgDRIFT and Exposure Opportunity Index Models. *Journal of Exposure Science and Environmental Epidemiology*. 19:187-200, 2009.

Karch NJ, Watkins DK, Young AL and Ginevan ME. Environmental Fate of TCDD and Agent Orange and Bioavailability to Troops in Vietnam. *Organohalogen Compounds*. 66:3689-3694, 2004.

Watkins D, Chiazze L, Fryar C, et al: A Case Control Study of Lung Cancer and Non-malignant Respiratory Disease among Employees in Asphalt Roofing Manufacturing and Asphalt Production. *J Occup and Environ Med* 44:551-558, 2002.

Chiazze L, Watkins D, Fryar C, et al: Mortality from Non-Malignant Respiratory Disease in the Fiberglass Manufacturing Industry. *Occup Environ Med* 59:369-372, 2002.

Watkins D, Chiazze L, Fryar C, et al: An Historical Cohort Mortality Study of Synthetic Fiber Workers Potentially Exposed to Glycerol Polyglycidyl Ether. *J Occup and Environ Med* 43:984-988, 2001.

Chiazze L, Watkins D, Fryar C, et al: Mortality from Nephritis and Nephrosis in the Fiberglass Manufacturing Industry. *Occup Environ Med* 556:164-166, 1999.

Watkins D, Chiazze, L, Jr. and Fryar, C: Historical Cohort Mortality Study of a Continuous Filament Fiberglass Manufacturing Plant. II. Women and Minorities. *J Occup and Environ Med* 39:548-555, 1997.

Chiazze L, Jr., Watkins D, and Fryar C: Historical Cohort Mortality Study of a Continuous Filament Fiberglass Manufacturing Plant: I. White Males. *J Occup and Environ Med* 39:432-441, 1997.

Chiazze L, Jr., Watkins D, and Fryar C: Adjustment for the Confounding of Cigarette Smoking in an Historical Cohort Mortality Study of Workers in a Fiberglass Manufacturing Facility. *J Occup and Environ Med* 1995; 37:744-748.

Chiazze L Jr. and Watkins DK: Epidemiology Studies of Synthetic Vitreous Fibers: Methods Used and Current Studies. *Reg Tox & Pharm* 20:S58-S67, 1994.

Chiazze L Jr., Watkins D, Fryar C and Kozono J: A Case-Control Study of Malignant and Non

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Malignant Respiratory Disease Among Employees of a Fiberglass Manufacturing Facility. II Exposure Assessment. *Br J Ind Med* 1993; 50:717-725.

Chiazze L Jr., Watkins D, and Fryar C: A Case-Control Study of Malignant and Non Malignant Respiratory Disease among Employees of a Fiberglass Manufacturing Facility. *Br J Ind Med*, 49:326-331, 1992.

Chiazze L Jr., Watkins DK and Amsel J: Asphalt and Risk of Cancer in Man. *Br J Ind Med*, 48:538-542, 1991.

Chiazze L Jr, Lundin F and Watkins D (Eds). 1983. *Methods and Issues in Occupational and Environmental Epidemiology*. Ann Arbor Science Press, Ann Arbor, MI.