

S U S A N R . S A M A

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EDUCATION

1996	Sc.D.	Work Environment, Major: Epidemiology <ul style="list-style-type: none">• Minors: Industrial Hygiene and Environmental Lung Disease• Dissertation: Machining Fluids and Acute Respiratory Response	University of Massachusetts Lowell
1990	M.S.	Work Environment, concentration: Epidemiology	University of Massachusetts Lowell
1987	B.S.N.	Nursing <ul style="list-style-type: none">• Magna Cum Laude	University of Massachusetts Lowell

LICENSURES/CERTIFICATES

1987 - Present	Registered Nurse in the Commonwealth of Massachusetts <i>License number 182706</i>
1988 - 1997	Emergency Medical Technician (M.A.S.T.) in the Commonwealth of Massachusetts <i>License number 807359</i>
1985 - 1991	Basic Life Support Instructor, American Heart Association
1990	Completed a NIOSH approved spirometry training course

PROFESSIONAL EXPERIENCE

July 2006 – Present <i>Department of Work Environment, University of Massachusetts Lowell, Lowell, MA</i> Working with a multi-disciplinary occupational health research team to conduct several epidemiologic investigations including the following areas: Sharps injuries in home health care workers, proximity to traffic and asthma in children and exhaled breath biomarkers in relation to asthma and chronic obstructive pulmonary disease. Other duties include grant writing and preparation and publication of peer reviewed manuscripts.	Research Professor
May 2000 – Present <i>Fallon Clinic Research Department, Worcester, MA</i> Provide epidemiologic and biostatistical support for a variety of research projects relating to asthma, chronic obstructive pulmonary disease, biomarkers in exhaled breath condensate, diabetes disease management programs, breast cancer and mammography.	Epidemiologist
May 1999-June 2006 <i>Harvard School of Public Health, Department of Environmental Health, Occupational Health Program, Boston, MA</i> Worked with a multi-disciplinary occupational health research team to design and conducted a large, community-based prospective study of adult onset asthma. Collaborated on other projects involving indoor air quality and transmission of respiratory viruses and the study of exposure to metal working fluids.	Research Associate
September 1999- June 2006 <i>Department of Work Environment, University of Massachusetts Lowell, Lowell, MA</i> Taught Introduction to Biostatistics and Epidemiology and Toxicology and Health Effects of Work Related Exposures in the graduate program.	Adjunct Professor
April 1996 - Present <i>Washington State Department of Labor and Industries, Safety & Health Assessment & Research for Prevention (SHARP) Program, Olympia, WA</i> Worked as a member of a multi-disciplinary occupational health and safety research team, conducting investigations on a variety of occupational exposures, injuries and disease. Principal Investigator/Project Manager for a surveillance project designed to evaluate occupationally related skin disorders in the state of Washington. Principal Investigator for the Adult Blood Lead Epidemiology and Surveillance program designed to identify cases of occupational lead poisoning in order to initiate appropriate worksite interventions. Co-Principal Investigator for an intervention evaluation project (funded by NIOSH) to evaluate the effectiveness of “zero-lift” programs, job modification support	Epidemiologist

and a workers' compensation incentive on reducing back and shoulder injuries in nursing home staff. Principal Investigator for a research grant awarded by NIOSH to evaluate the relationship between asthma and chronic sinusitis in occupational cohorts. Working with colleagues at the Department of Health to revise reportable condition legislation with primary responsibility for incorporating select occupational conditions. Other activities include grant writing and review, supervisory responsibilities for SHARP professional staff, collaborative work with the Department of Health on a Birth Defects Registry Advisory Committee and in a local cancer cluster investigation. Collaborative work on CDC's Asthma Surveillance Advisory Committee and the NIOSH/State Workgroup Surveillance Committee, designed to provide NIOSH with recommendations for developing a national surveillance agenda.

April 1997 - Present

Adjunct Faculty

Department of Environmental Health, University of Washington, Seattle, WA

Collaborate with faculty members on various research projects including a longitudinal study designed to look at asthma in aluminum smelter workers. Sponsor students to conduct internships at SHARP. Present lectures in the continuing education program.

September 1993 - April 1996

Teaching Assistant and Research Assistant

Department of Work Environment, University of Massachusetts Lowell, Lowell, MA

Principal Data Analyst for the Allison Transmission Machining Fluid Lung Health Study. Teaching assistant for graduate courses in Epidemiology, Biostatistics, and Critical Review of the Occupational Health Regulations, a course designed to explore the practical applications of epidemiologic methods to the setting of actual standards.

January 1992 - August 1993

Field Epidemiologist

Allison Transmission Machining Fluid Lung Health Study, Indianapolis, IN

In the Allison Transmission Machining Fluid Lung Health Study. Examining the effects of occupational cutting oils on pulmonary function. Coordinated and conducted the fieldwork in an investigation of the acute respiratory effects of exposure to machining fluids. Project was funded by the National Joint Committee for Occupational Safety and Health of the United Auto Workers and General Motors and was conducted at Allison Transmission, Indianapolis, IN

May 1990-December 1991

Field Epidemiologist

Department of Work Environment, University of Massachusetts Lowell, Lowell, MA

Coordinated and conducted the fieldwork and assisted in analyses of data for a study of respiratory irritants in university laboratories.

October 1988-May 1990

Research Assistant

Department of Work Environment, University of Lowell, Lowell, MA

Assisted with gathering and analyzing data for a case control study involving beryllium disease. Analyzed a data set from asbestos exposed workers regarding pulmonary function, pleural plaques and methods of evaluating these plaques.

June 1989 - July 1989

Performed an incidence study of cancer among Massachusetts firefighters in the years 1982-1985 for the Massachusetts Department of Public Health, Boston, MA, First author on resulting peer reviewed publication.

March 1989

Risk Management Consultant for the Oil, Chemical and Atomic Workers Union, Beaumont, TX and Sulfur, LA

1983 - 1992

Volunteer as an Emergency Medical Technician on an ambulance service, Groton, MA

HONORS

1996	Outstanding Scholar, Department of Work Environment
1985 - 1993	Member Sigma Theta Tau, National Nursing Honor Society
1990	Outstanding Graduate Student, Department of Work Environment

PROFESSIONAL MEMBERSHIPS

Council of State and Territorial Epidemiologists
International Commission on Occupational Health

RESEARCH CONTRACTS

September 1996 - September 1999

Chronic Sinusitis and Occupational Respiratory Disease, NIOSH, Principal Investigator and Project Director.

September 1997 - September 2000

Surveillance of Occupational Dermatologic Disorders in Washington State, Cooperative Agreement for State-Based Surveillance Activities – Sentinel Event Notification Systems for Occupational Risk (SENSOR); NIOSH, Principal Investigator and Project Director.

September 1997 - Present

Washington State Adult Blood Lead Epidemiology and Surveillance Program, Cooperative Agreement for State-Based Surveillance Activities – Adult Blood Lead Epidemiology and Surveillance (ABELS); NIOSH, Principal Investigator

September 1998 - September 2001

Intervention Effectiveness in Nursing Homes, NIOSH, Co-Principal Investigator.

PEER REVIEWED PUBLICATIONS

1. **Sama SR**, Martin TR, Kriebel D. Cancer incidence among Massachusetts firefighters, 1982-1986. *Amer J of Ind Med* 1990; 18:47-54.
2. Kriebel D, **Sama SR**, Cocanour B. Reversible pulmonary responses to formaldehyde: A study of clinical anatomy students. *Amer Review of Respir Dis* 1993; 148:1509-1515.
3. Woskie SR, Virji MA, Kriebel D, **Sama SR**, Eberiel D, Milton DK, Hammond SK, Moure-Eraso R. Exposure assessment for a field investigation of the acute respiratory effects of metalworking fluids. I. Summary of Findings. *Amer Ind Hyg Assn J* 1996; 57:1154-1162.
4. Kriebel D, **Sama SR**, Woskie S, Christiani DC, Eisen EA, Hammond SK, Milton DK, Smith M, Virji MA. A field investigation of the acute respiratory effects of metal-working fluids. I: Effects of aerosol exposures. *Amer J of Ind Med* 1997; 31:756-766
5. **Sama SR**, Kriebel D, Woskie S, Eisen EA, Wegman D, Virji MA. A field investigation of the acute respiratory effects of metal-working fluids. II: Effects of airborne sulfur exposures. *Amer J Ind Med* 1997; 31:767-776.
6. **Sama SR**, Kriebel D. Sinusitis and Asthma in Occupational Cohorts. *Am J Respir and Crit Care Med* 1998; 155:A148. (1998 American Thoracic Society International Conference).
7. Kaufman JD, Cohen MA, **Sama SR**, Shields JW, Kalat J. Occupational Skin Diseases in Washington State, 1989-1993: Using Workers' Compensation Data to Identify Cutaneous Hazards. *Amer J Pub Health* 1998; 88:1047-1051.
8. **Sama SR**, Kriebel D, Wegman DH, Eisen EA. Estimated Incidence of Sinus Problems by Occupation and Industry: Results from a National Cross-Sectional Survey. Presented at the International Symposium Epidemiology in Occupational Health, September 1998, Helsinki, Finland.
9. Daroowalla F, Kaufman J, Nelson N, **Sama SR**, Kennedy S, Barnhart S. New Bronchial Responsiveness and Asthma Symptoms in a Cohort of Aluminum Potroom Workers. *Am J Respir and Crit Care Med* 1998; 153:A882. (1998 American Thoracic Society International Conference).
10. Virji MA, Woskie SR, **Sama SR**, Kriebel D, Eberiel D. Identifying the determinants of viable microorganisms in the air and bulk metalworking fluids. *AIHAJ* 2000; Nov-Dec; 61(6):788-97.
11. Holcroft CA, Eisen EA, Wegman DH, **Sama SR**. Measurement Characteristics of Peak Expiratory Flow in a General Population. *Am J Resp and Crit Care Med* 2001 163(5): A359. (2001 American Thoracic Society International Conference).
12. **Sama SR**, Hunt PR, Cirillo PA, Marx A, Rosiello R, Milton DK. Identification of adult onset asthma among HMO members. *Am J Resp and Crit Care Med* 2001 163(5): A161. (2001 American Thoracic Society International Conference).
13. **Sama SR**, Christiani DC, Milton DK. Diagnosis and management of occupational asthma. *Immunol Allergy Clin N Am* 2002; 22:791-806.
14. Holcroft CA, Eisen EA **Sama SR**, Wegman DH. Measurement characteristics of peak expiratory flow. *Chest* 2003; Aug;124(2):501-10.
15. **Sama SR**, Hunt PR, Cirillo CP, Marx A, Rosiello RA, Henneberger PK, Milton DK. A longitudinal study of adult-onset asthma incidence among HMO members. *Environ Health* 2003; 2:10.
16. Hunt PR, Herrick R, Marx A, **Sama SR**, Milton DK, Hallock MF, Pechter E, Boylstein R, Dieffenbach A. Exposure Assessment for Respiratory Sensitizers and Irritants: Expert assessment versus subject assessment of exposure based on telephone questionnaire responses in an HMO-Based study of occupational asthma, American Industrial Hygiene Conference and Exhibition, San Diego, CA, 2002.

17. Milton DK, **Sama SR**, Derk SJ, Henneberger PK, Masiello J, Wetzel A, Buess C, Preusse PA, Stemple KJ. Portable Spirometer for Occupational Respiratory Epidemiology. *Am J Respir Crit Care Med* 2003; 167:A505.
18. Henneberger PK, Derk SJ, Milton DK, **Sama SR**, Stemple KJ, Masiello J, Wetzel A, Preusse PA, Enright PL. Modification of a Commercial Portable Spirometer for Use in Studies of Work-Related Respiratory Disease, European Respiratory Society, 2003.
19. **Sama SR**, Hunt PR, Fuhlbrigge A, Rosiello RA, Cirillo CP, Herrick R, Houseman EA, Milton DK. Incidence of Asthma Attributable to Occupation Among HMO Members. *Am J Respir Crit Care Med* 2004; 169:A648.
20. Fuhlbrigge A, Houseman EA, **Sama SR**, Hunt PR, Herrick R, Rosiello RA, Milton DK. Lack of Awareness of an Asthma Diagnosis among Adult-onset Asthma Patients. *Am J Respir Crit Care Med* 2004; 169:A529.
21. Milton DK, Houseman EA, **Sama SR**, Hunt PR, Fuhlbrigge A, Herrick R, Rosiello RA. Adult-onset Asthma Attributable to Occupational Exposures. *Am J Respir Crit Care Med* 2004; 169:A459.
22. Milton DK, Houseman EA, **Sama SR**, Hunt PR, Fuhlbrigge A, Rosiello RA. Risk Factors for Asthma Onset in Adulthood. *Am J Respir Crit Care Med* 2004; 169:A357.
23. **Sama SR**, Milton DK, Hunt PR, Houseman EA, Henneberger PK, Rosiello RA. A case-by-case assessment of adult-onset asthma attributable to occupational exposures among members of a health maintenance organization. *J Occup Environ Med*, 2006 48(4):400-7.
24. Bolen AR, Henneberger PK, Liang X, **Sama SR**, Preusse PA, Rosiello RA, Milton DK. The validation of work-related self-reported asthma exacerbation. *Occup Environ Med*, 2007 64(5):343-8.
25. Lowery EP, Henneberger PK, Rosiello R, **Sama SR**, Preusse P, Milton DK. Quality of life of adults with workplace exacerbation of asthma. 2007 Dec;16(10):1605-13.
26. Markkanen P, Chalupka S, Galligan C, **Sama S**, Gore R, Kim H, Bello A, Kriebel D, **Quinn M**, Studying the health of home health care providers: research design challenges. *Journal of Research in Nursing*, in press November 2008.
27. Quinn, M Markkanen P, Galligan C, Kriebel D, Chalupka S, Kim H, Gore R, **Sama S**, Laramie A, Davis L. Sharps injuries and other blood and body fluid exposures among home healthcare nurses and aides, submitted *AJPH*, August 2008.
28. Corradi, M, Acampa, O, Goldoni, M, Andreoli, A, Milton, D, **Sama, S**, Rosiello, R, de Palma, G, Apostoli, P, Mutti, A. Metallic Elements in Exhaled Breath Condensate and Serum of Patients with Exacerbation of Chronic Obstructive Pulmonary Disease, *Metallomics Reference: B907635B*.

OTHER PUBLICATIONS

1. **Sama SR**, Adult Blood Lead Epidemiology and Surveillance. *MMWR* 1998 47:77-80.
2. **Sama SR**, Adult Blood Lead Epidemiology and Surveillance. *MMWR* 1997 46:1000-1002.
3. Field Investigations of the Acute Respiratory Effects of Machining Fluids: Final Report to the National Joint Committee for Occupational Safety and Health for the United Auto Workers and General Motors. University of Massachusetts: Kriebel D, Ebriel D, Eisen EA, Moure-Eraso R, Kumar S, **Sama SR**, Smith M, Virji MA, Woskie SR, Hammond SK. Harvard School of Public Health: Christiani D, Milton D, Tolbert P. June 1, 1994.
4. Occupational Health Surveillance Report of University of Lowell -- Oil Chemical and Atomic Workers Gulf Coast Project: Texas and Louisiana. University of Lowell, Moure-Eraso R, Somers C, Hubley P, **Sama S**. July 20, 1989.