

S U S A N R . S A M A

UNIVERSITY OF MASSACHUSETTS LOWELL, DEPARTMENT OF PUBLIC HEALTH
600 SUFFOLK STREET, SUITE 520, LOWELL MA 01854
PHONE: 978.934.3351
E-MAIL SUSAN_SAMA@UML.EDU

EDUCATION

1996	Sc.D.	Work Environment, Major: Epidemiology	University of Massachusetts Lowell
		<ul style="list-style-type: none">Minors: Industrial Hygiene and Environmental Lung DiseaseDissertation Title: Machining Fluids and Acute Respiratory ResponseCommittee: David Kriebel, Ellen Eisen, David Wegman, Susan Woskie	
1990	M.S.	Work Environment, concentration: Epidemiology	University of Massachusetts Lowell
1987	B.S.N.	Nursing	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, 2015	Completed a NIOSH approved spirometry training course

PROFESSIONAL EXPERIENCE

July 2006 – Present	Research Professor
<i>Department of Public Health (formerly 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: COVID-19 severity and the association to use of hypertension medications, pre-infection Vitamin D, A1C, ALT, AST and blood glucose levels (and other potential predictors), Long-COVID-19, Occupational Safety and Health interventions to reduce OSH hazards to home care aides, Sharps injuries and safe cleaning in home health care workers, Occupational lifting and risk of retinal detachment, proximity to traffic and asthma in children, exhaled breath biomarkers in relation to asthma and chronic obstructive pulmonary disease, and environmental triggers of Chronic Obstructive Pulmonary Disease. Other duties include supervision of epidemiology field work, grant writing and preparation and publication of peer reviewed manuscripts. I have helped to develop and maintain a robust interdisciplinary research team with members from UMASS Lowell and Reliant Medical Group, Inc. This enables us to conduct epidemiologic investigations in various sub-specialties, using electronic medical record data in a large multi-specialty practice located in central Massachusetts.	

May 2000 – Present	Epidemiologist
<i>Reliant Medical Group (formerly Fallon Clinic) Research Department, Worcester, MA</i> Provide epidemiologic and biostatistical support for a variety of research projects relating to COVID-19, retinal detachment, asthma, chronic obstructive pulmonary disease, biomarkers in exhaled breath condensate, diabetes disease management programs, breast cancer and mammography.	

May 1999-June 2006	Research Associate
<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.	

September 1999- June 2006	Adjunct Professor
<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.	

April 1996 - Present	Epidemiologist
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Washington State Department of Labor and Industries, Safety & Health Assessment & Research for Prevention (SHARP) Program, Olympia, WA

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 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.

RELATED EXPERIENCE

June 2014-Present

Board Member

Town of Sudbury Board of Health, Sudbury, MA

Provide support for the Health Director, Board of Health Nurse, and Social Worker with regards to addressing the health needs of the community. This includes emergency preparedness, public health support for elderly residents, vaccination clinics, tracking reportable infectious diseases (Tuberculosis, tick-borne diseases, Pertussis, Mumps, Encephalitis, SARS-CoV-2, etc.), tobacco/vaping regulations and educational outreach to at risk residents, drug disposal, septic inspections, facility permitting, food establishment inspections for food safety, summer camp inspections, drinking water safety, swimming pool inspections, animal and mosquito control, and hazardous waste collection. Support Social Worker who provides significant resources for residents in need including referrals for mental health support, medical care, parenting skills, housing, and financial supports. In addition, the Social Worker accepts and reviews HOPE Sudbury Fund applications and provides accessible information on the Health Department

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website for useful area public health resources and connects residents with community supports to apply for essential services. Provide epidemiologic support to the Health Department in general as well as during the COVID-19 pandemic.

June 2011-Present

Member

Medical Reserve Corps Executive Committee

Work with the Health Department Nurses to organize and promote established Medical Reserve Corps (MRC) program which includes Sudbury residents with medical and public health expertise to ensure emergency preparedness. Participate in both drills and actual shelter supports during weather emergencies and vaccination clinics for the town of Sudbury.

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

1987	Magna Cum Laude, College of Nursing
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

GRANT EXPERIENCE

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 – September 2000

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.

September 2001-August 2003

Physiologic Characterization of Occupational Asthma, Role: Principal Investigator

September 2009-August 2013

Home and community exposures in COPD exacerbation: A pilot case cross-over study, Role: Co-Principal Investigator

July 2004-June 2009

Sharps Injuries and Blood Exposure in Home Health Care (“Project SHARRP”); Role: Nurse, Epidemiologist

July 2009 –June 2014

Safety and Health for Home Care Workers in Social Assistance and Healthcare; Role: Nurse, Epidemiologist

September 2014-August 2019

Heavy Lifting and Risk of Retinal Detachment: A Case Control Study, Role: Co-Investigator

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July 2014-June 2022

Homecare Work in Social Assistance and Healthcare: Safe Cleaning and Disinfection, Role: Nurse, Epidemiologist

April 2020

COVID-19 severity and the association to use of hypertension medications (UML Seed grant). Role: Co-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.

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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. *J Res Nurs*. 2008;13:480-495.
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. *Am J Public Health* November 2009. 99 Suppl 3:S710-7. PMID 19890177.
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.
29. Quinn MM, Markkanen PK, Galligan CJ, Kriebel D, Chalupka SM, Kim H, Gore RJ, **Sama SR**, Laramie AK, Davis L. Sharps injuries and other blood and body fluid exposures among home health care nurses and aides. *Am J Public Health*. 2009 Nov;99 Suppl 3:S710-7. doi: 10.2105/AJPH.2008.150169. PMID: 19890177, PMCID:PMC2774204
30. Wan ES, DeMeo DL, Hersh CP, Shapiro SD, Rosiello RA, **Sama SR**, Fuhlbrigge AL, Foreman MG, Silverman EK. Clinical predictors of frequent exacerbations in subjects with severe chronic obstructive pulmonary disease (COPD). *Respir Med*. 2011 Apr;105(4):588-94. doi: 10.1016/j.rmed.2010.11.015. Epub 2010 Dec 10. PMID: 21145719, PMCID: PMC3046312
31. Costanza ME, Luckmann R, White MJ, Rosal MC, Cranos C, Reed G, Clark R, **Sama S**, Yood R. Design and methods for a randomized clinical trial comparing three outreach efforts to improve screening mammography adherence. *BMC Health Serv Res*. 2011 Jun 3;11:145. doi: 10.1186/1472-6963-11-145. PMID:21639900, PMCID: PMC3133545
32. Shorter JH, Nelson DD, McManus JB, Zahniser MS, **Sama SR**, Milton DK. Clinical study of multiple breath biomarkers of asthma and COPD (NO, CO(2), CO and N(2)O) by infrared laser spectroscopy. *J Breath Res*. 2011 Sep;5(3):037108. doi: 10.1088/1752-7155/5/3/037108. Epub 2011 Jul 15. PMID: 21757803, PMCID: PMC3169766
33. Markkanen P, Quinn M, Galligan C, **Sama S**, Brouillette N, Okyere D. Characterizing the nature of home care work and occupational hazards: a developmental intervention study. *Am J Ind Med*. 2014 Apr;57(4):445-57. doi: 10.1002/ajim.22287. Epub 2013 Dec 17. PMID: 24347541
34. Hunt PR, Friesen MC, **Sama S**, Ryan L, Milton D. Log-Linear Modeling of Agreement among Expert Exposure Assessors. *Ann Occup Hyg*. 2015 Jul;59(6):764-74. doi:10.1093/annhyg/mev011. Epub 2015 Mar 6. PMID: 25748517, PMCID: PMC4506313
35. Galligan CJ, Markkanen PK, Fantasia LM, Gore RJ, **Sama SR**, Quinn MM. A growing fire hazard concern in communities: home oxygen therapy and continued smoking habits. *New Solut*. 2015 Feb;24(4):535-54. doi: 10.2190/NS.24.4.g. PMID: 25816169
36. Markkanen P, Galligan C, Laramie A, Fisher J, **Sama S**, Quinn M. Understanding sharps injuries in home healthcare: The Safe Home Care qualitative methods study to identify pathways for injury prevention. *BMC Public Health*. 2015 Apr 11;15:359. doi: 10.1186/s12889-015-1673-x. PMID: 25885473, PMCID: PMC4414288
37. **Sama SR**, Kriebel D, Gore RJ, DeVries R, Rosiello R. Environmental triggers of COPD symptoms: a cross sectional survey. *COPD Research and Practice*. 2015; 1(12).
38. Hunt PR, Friesen MC, **Sama S**, Ryan L, Milton D. Log-Linear Modeling of Agreement among Expert Exposure Assessors. *Ann Occup Hyg*. 2015 Jul 59(6) 764-74. PMID 25748517
39. Quinn MM, Markkanen PK, Galligan CJ, **Sama SR**, Kriebel D, Gore RJ, Brouillette NM, Okyere D, Sun C, Punnett L, Laramie AK, Davis L. Occupational health of home care aides: results of the safe home care survey. *Occup Environ Med*. 2016 Apr;73(4):237-45. doi: 10.1136/oemed-2015-103031. Epub 2015 Jul 24. PMID: 26209318, PMCID: PMC4819650
40. DeVries R, Kriebel D, **Sama S**. Outdoor Air Pollution and COPD-Related Emergency Department Visits, Hospital Admissions, and Mortality: A Meta-Analysis. *COPD*. 2017 Feb;14(1):113-121. doi: 10.1080/15412555.2016.1216956. Epub 2016 Aug 26. PMID: 27564008

41. DeVries R, Kriebel D, **Sama S**. Low level air pollution and exacerbation of existing copd: a case crossover analysis. *Environ Health*. 2016 Oct 18;15(1):98. PMID: 27756407, PMCID: PMC5070120
42. DeVries R, Kriebel D, **Sama S**. Validation of the breathlessness, cough and sputum scale to predict COPD exacerbation. *NPJ Prim Care Respir Med*. 2016 Dec 1;26:16083. doi: 10.1038/npjpcrm.2016.83. PMID: 27906157, PMCID: PMC5131613
43. Brouillette NM, Quinn MM, Kriebel D, Markkanen PK, Galligan CJ, **Sama SR**, Gore RJ, Laramie AK, Davis L. Risk of sharps injuries among home care aides: Results of the Safe Home Care survey. *Am J Infect Control*. 2017 Apr 1;45(4):377-383. doi:10.1016/j.ajic.2016.11.018. Epub 2017 Jan 4. PMID: 28063731
44. Luckmann R, White MJ, Costanza ME, Frisard CF, Cranos C, **Sama S**, Yood R. Implementation and process evaluation of three interventions to promote screening mammograms delivered for 4 years in a large primary care population. *Transl Behav Med*. 2017 Apr 27. doi: 10.1007/s13142-017-0497-x. [Epub ahead of print] PMID: 28452044
45. Mapel D, Laliberté F, Roberts MH, **Sama SR**, Sundaresan D, Pilon D, Lefebvre P, Duh MS, Patel J. A retrospective study to assess clinical characteristics and time to initiation of open-triple therapy among patients with chronic obstructive pulmonary disease, newly established on long-acting mono- or combination therapy. *Int J Chron Obstruct Pulmon Dis*. 2017 Jun 21;12:1825-1836. doi: 10.2147/COPD.S129007. eCollection 2017. PMID: 28684905, PMCID: PMC5485896
46. DeVries R, Kriebel D, **Sama S**. Outdoor Air Pollution and COPD-Related Emergency Department Visits, Hospital Admissions, and Mortality: A Meta-Analysis. *COPD*. 2017 Feb;14(1):113-121. PMID:27564008
47. **Sama SR**, Kriebel D, Gore RJ, DeVries RR, Rosiello R. Environmental triggers of COPD symptoms: a case cross-over study *BMJ Open Respiratory Research* 2017;4:e000179. doi: 10.1136/bmjresp-2017-000179.
48. Ortega H, Llanos JP, Lafeuille MH, Duh MS, Germain G, Lejeune D, **Sama S**, Bell C, Hahn B. Effects of systemic corticosteroids on blood eosinophil counts in asthma: real-world data. *J Asthma*. 2018 Oct 16;:1-8. PubMed PMID: 30130418.
49. Ortega H, Llanos JP, Lafeuille MH, Germain G, Duh MS, Bell CF, **Sama SR**, Hahn B. Burden of disease associated with a COPD eosinophilic phenotype. *Int J Chron Obstruct Pulmon Dis*. 2018;13:2425-2433. PubMed PMID: 30147308; PubMed Central PMCID: PMC6097826.
50. Goodyear N, Markkanen P, Beato-Melendez C, Mohamed H, Gore R, Galligan C, **Sama S**, Quinn M. Cleaning and disinfection in home care: A comparison of 2 commercial products with potentially different consequences for respiratory health. *Am J Infect Control*. 2018 Apr;46(4):410-416. PubMed PMID: 29169933.
51. Karlsson ND, Markkanen PK, Kriebel D, Gore RJ, Galligan CJ, **Sama SR**, Quinn MM. Home care aides' experiences of verbal abuse: a survey of characteristics and risk factors. *Occup Environ Med*. 2019 Jul;76(7):448-454. doi:10.1136/oemed-2018-10564. Epub 2019 June 11.
52. Kriebel D, **Sama SR**, Bradbury M, Buchholz B, Curti S, Daines B, Deliso K, DeVries R, Fleckner T, Gore R, Mattioli S, Shah C, Wegman D. Risk factors for retinal detachment: A case control study. *JOEM*, April 7, 2020. doi:10.1097/JOM.0000000000001867.
53. **Sama SR**, Quinn M, Galligan CJ, Karlsson ND, Gore RJ, Kriebel D, Prentice JC, Osei-Poku G, Carter CN, Markkanen PK, Lindberg JE. Impacts of the COVID-19 pandemic on home health care agency managers, clients, and aides: a cross-sectional survey, March - June, 2020. *Home Health Care Medicine and Practice*. Forthcoming. Available from: <https://journals.sagepub.com/doi/10.1177/1084822320980415> DOI: doi.org/10.1177/1084822320980415
54. Bauer AZ, Gore R, **Sama SR**, Rosiello R, Garber L, Sundaresan D, McDonald A, Arruda P, Kriebel D. Hypertension, medications, and risk of severe COVID-19: A Massachusetts community-based observational study. *J Clin Hypertens (Greenwich)*. 2021 Jan;23(1):21-27. PubMed Central PMCID: PMC7753489.
55. Quinn M, Markkanen PK, Galligan CJ, **Sama SR**, Lindberg JE, Edwards MF. Healthy aging requires a healthy home care workforce: the occupational safety and health of home care aides. *Current Environmental Reports*. April 2021. DOI:<https://doi.org/10.1007/s40572-021-00315-7>.
56. Lindberg JE, Quinn MM, Gore RJ, Galligan CJ, **Sama SR**, Sheikh NN, Markkanen PK, Parker-Vega A, Karlsson ND, LeBouf RF, Virji MA. (2021): Assessment of home care aides' respiratory exposure to total volatile organic compounds and chlorine during simulated bathroom cleaning: An experimental design with conventional and "green" products, *Journal of Occupational and Environmental Hygiene*, May 2021. DOI: 10.1080/15459624.2021.1910280. <https://doi.org/10.1080/15459624.2021.1910280>
57. Mapel DW, Roberts MH, **Sama S**, Bobbili PJ, Cheng WY, Duh MS, Nguyen C, Thompson-Leduc P, Van Dyke MK, Rothnie KJ, Sundaresan D, Certa JM, Whiting TS, Brown JL, Roblin DW. Development and validation of a healthcare utilization-based algorithm to identify acute exacerbations of chronic obstructive pulmonary disease. *International Journal of Chronic Obstructive Pulmonary Disease*, 2021. In Press: Accepted for publication May 9, 2021.

58. Markkanen P, Brouillette N, Quinn M, Galligan C, **Sama S**, Lindberg J, Karlsson N. "It changed everything": The Safe Home Care qualitative study of the COVID-19 pandemic's impact on home care aides, clients, and managers. *BMC Health Serv Res*. 2021 Oct 5;21(1):1055. PubMed Central PMCID: PMC8491760.
59. Quinn MM, Markkanen PK, Galligan CJ, **Sama SR**, Lindberg JE, Edwards MF. Healthy Aging Requires a Healthy Home Care Workforce: the Occupational Safety and Health of Home Care Aides. *Curr Environ Health Rep*. 2021 Sep;8(3):235-244. PubMed Central PMCID: PMC8114970.
60. Eyllon M, Dang AP, Barnes JB, Buresh J, Peloquin GD, Hogan AC, Shimotsu ST, **Sama SR**, Nordberg SS. Associations between psychiatric morbidity and COVID-19 vaccine hesitancy: An analysis of electronic health records and patient survey. *Psychiatry Res*. 2022 Jan;307:114329. doi: 10.1016/j.psychres.2021.114329. Epub 2021 Dec 7. PubMed PMID: 34910966; PubMed Central PMCID: PMC8648380.

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.
5. The Impact of COVID-19 on Home Health and Home Care in Massachusetts. The UMASS Lowell Safe Home Care Project and Betsy Lehman Center for Patient Safety. December 2020. Available at the following URL: https://betsylehmancenterma.gov/assets/uploads/HomeCare_Report.pdf
6. COVID-19 Related Fact Sheets for Home Care Agencies and Aides 2020-2021:
 - a. Safe Home Care during COVID-19: Tips for Personal Care Attendants (PCAs), Caregivers and Consumers. (Available in English and Spanish); Available at URL: https://www.uml.edu/docs/SafeHC-COVID-19-Brochure_tcm18-335702.pdf; https://www.uml.edu/docs/SafeHC-COVID-19-Brochure-Spanish_tcm18-337311.pdf
 - b. Safe Cleaning and Disinfection in Home Care during the COVID-19 Pandemic; Available at URL: https://www.uml.edu/docs/SHC-COVID19-CD_tcm18-334412.pdf
 - c. Selecting and Using Personal Protective Equipment (PPE) in Home Care during the COVID-19 Pandemic; Available at URL: https://www.uml.edu/docs/SHC-COVID19-PPE_tcm18-334411.pdf
 - d. Home Care Tasks, Exposure Risk, and Recommended Personal Protective Equipment (PPE) during the COVID-19 Pandemic, Available at URL: https://www.uml.edu/docs/SHC-COVID19-ExposureRisks_tcm18-334413.pdf
 - e. Cloth Face Coverings & Infection Prevention in Home Care during the COVID-19 Pandemic – Guidance for Home Care Agencies and Aides. Available at URL: https://www.uml.edu/docs/SHC-COVID19-FaceCoverings_tcm18-334414.pdf

SELECTED PRESENTATIONS

1. Environmental and Occupational Triggers of COPD Symptoms: A case crossover study - *The 26th International Symposium on Epidemiology in Occupational Health (EPICOH)*. August 2017 – Edinburgh
2. *Mini-Symposium*: If heavy lifting causes retinal detachment, what is the mechanism? Implications of pathophysiology for epidemiology. *The 26th International Symposium on Epidemiology in Occupational Health (EPICOH)*. August 2017 – Edinburgh
3. NIOSH NORA Health Care and Social Assistance Council: Healthcare Services in the Next Phase of COVID-19: Home Care Perspective. July 8, 2020. Presenters: Quinn, Markkanen, Sama
4. Study Methods: COVID-19 severity and the association to use of hypertension medications, Zuckerberg College of Health and Sciences Retreat, May 5, 2020.
5. Study Results: COVID-19 severity and the association to use of hypertension medications. 2020 Faculty Symposium, December 2, 2020.