Susan T. Pastula, M.P.H.

SUPERVISING EPIDEMIOLOGIST

CONTACT INFORMATION

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PROFESSIONAL PROFILE

Ms. Susan Pastula is an epidemiologist with more than 25 years of experience conducting research in occupational health, environmental health, cancer, nutrition, medical devices and pharmacoepidemiology. Ms. Pastula has worked in various settings, including industry, university, and consulting. She regularly manages and supports systematic and targeted literature reviews and meta-analyses synthesizing scientific literature on various topics, including health effects of asbestos, per- and poly-fluoroalkyl substances (PFAS), ethylene oxide, polychlorinated biphenyls (PCBs), trichloroethylene (TCE) and other solvents. She has evaluated cancer risks with consumption of dairy, red meat, and coffee, and adverse outcomes of metal-on-metal hip replacements and inferior vena cava filters. She has conducted studies of community environmental exposures and supported pharmaceutical drug development with real-world evidence and literature synthesis. She has been involved in all aspects of epidemiologic studies, from study design and protocol development to interpreting analytical findings and manuscript writing. Ms. Pastula also routinely evaluates epidemiologic evidence using standard critical appraisal tools.

Ms. Pastula holds a Master of Public Health degree, has published multiple articles in the peer-reviewed literature, including *Population Health Management*, *Regulatory Toxicology and Pharmacology*, *Toxicology and Applied Pharmacology*, *PLoS One*, *Open Forum for Infectious Disease*, and the *Journal of Occupational and Environmental Medicine*. She has also presented her work at scientific conferences across research settings such as the International Society for Pharmacoepidemiology, ID Week, Pediatric Academic Societies, Monticello Conference, International Society of Environmental Epidemiology, and the International Society for Pharmacoeconomics and Outcomes Research.

PROFESSIONAL ASSOCIATIONS

International Society of Environmental Epidemiology

International Society of Pharmacoepidemiology

Infectious Disease Society of America

EDUCATION

1993 Master of Public Health, General Epidemiology
University of Michigan School of Public Health, Ann Arbor

1991 Bachelor of Science, Biology
University of Michigan, Ann Arbor

SELECTED PROFESSIONAL EXPERIENCE

Managed large systematic literature reviews to assess the potential health effects of occupational and environmental exposures including asbestos, per- and poly-fluoroalkyl substances (PFAS), ethylene oxide, polychlorinated biphenyls (PCBs), trichloroethylene (TCE) and other solvents. Evaluated cancer risks with consumption of dairy, red meat, and coffee, and adverse outcomes of metal-on-metal hip replacements and inferior vena cava filters.

Drafted technical comments on regulatory documents that assessed the health effects of PFAS to set toxicological limits. Critically assessed the literature on PFAS and vaccine response for an uncertainty assessment of the use of epidemiologic data in toxicity value derivation.

Conducted secondary data analyses for burden of disease and healthcare use for respiratory syncytial virus (RSV) compared to pneumonia and influenza in US adults as well as characterizing RSV strains in US adults. Conducted reviews and data analyses of RSV compared to bronchiolitis among US infants and children.

Supported commercial forecasting for pharmaceutical clients with literature reviews, secondary data analyses, and incidence/prevalence modeling.

Managed a large litigation caseload for several expert witnesses for nearly 20 years involving a wide array of topics. Activities included conducting large-scale literature reviews, performing ecologic analyses, drafting reports, rebuttals, and critiques, and drafting trial materials.

Updated and expanded a landmark analysis comparing potency of asbestos fiber types for mesothelioma to include more recent literature, as well as the addition of other elongated mineral particles such as talc, taconite, and vermiculite. This effort included obtaining and revising the original authors' statistical coding in R to calculate updated and new potency factors.

Evaluated childhood cancer incidence in a community with exposure to fracking operations using SEER, census-tract, and state environmental protection department data.

Assisted with the conduct of a cohort mortality study of occupational exposure and cancer in a manufacturing environment. Performed mortality tracing of cohort subjects, managed a large data set using SAS, and conducted life-table analyses.

Participated in developing an in-house injury and illness surveillance tool to support required OSHA industry reporting, as well as influence the design of future manufacturing processes to minimize injuries and related costs. Trained safety and health professionals across the country in data analysis using the tool.

Maintained a large company mortality database, including mortality tracing and death certificate coding. Oversaw third-party researchers conducting union/company-contracted mortality studies using this data set. Conducted analyses of company healthcare usage and workplace injuries using SAS.

MANUSCRIPTS

Clouser MC, Suh M, Movva N, Hildebrand JS, **Pastula ST**, Schoehl M, Hindoyan A, Balasubramanian A, et al. 2025. A systematic literature review of MTAP deletions in solid and hematologic cancers. Cancer Treat Res Comm 44:100966; doi: 10.1016/j.ctarc.2025.100966. PMID: 40729867.

Pastula ST, Bylsma LC, Rege SV, Lewis RJ, Movva N. 2025. Scoping review of indices to measure a community's health status. Popul Health Manag 28(1):37-49; doi: 10.1089/pop.2024.0138. PMID: 39558762.

Wikoff DS, Vincent MJ, Heintz MM, **Pastula ST**, Reichert H, Klaren WD, Haws LC. 2025. Application of a quantitative uncertainty assessment to develop ranges of plausible toxicity values when using observational data in risk assessment: A case study examining associations between PFOA and PFOS exposures and vaccine response. Toxicol Sci 204(1):96-115; doi: 10.1093/toxsci/kfae152. PMID: 39792025.

Suh M, Movva N, Jiang X, Reichert H, **Pastula ST**, Sacks NC, Frankenfeld C, Fryzek JP, Simões AF. 2024. Healthcare utilization among infants covered by Medicaid and newly diagnosed with respiratory syncytial virus. Open Forum Infect Dis 11(4):ofae174; doi: 10.1093/ofid/ofae174. PMID: 38595954.

Movva N, **Pastula ST**, Rege SV, Lewis RJ, Bylsma LC. 2023. Scoping review of employer-led research using employee health claims data. Popul Health Manag 26(5):341-352; doi: 10.1089/pop.2023.0140. PMID: 37682577.

Alexander DD, **Pastula ST**, Riordan AS. 2021. Epidemiology of lung cancer among acrylonitrile-exposed study populations: A meta-analysis. Regul Toxicol Pharmacol 122(Jun):104896; doi: 10.1016/j.yrtph.2021.104896. PMID: 33617939.

Garabrant DH, **Pastula ST**. 2018. A comparison of asbestos fiber potency and elongate mineral particle (EMP) potency for mesothelioma in humans. Toxicol Appl Pharmacol 361(Dec):127–136; doi: 10.1016/j.taap.2018.07.003. PMID: 30077661.

Ruzin A, **Pastula ST**, Levin-Sparenberg EM, Jiang X, Fryzek JP, Tovchigrechko A, Lu B, Qi Y, et al. 2018. Characterization of circulating RSV strains among subjects in the OUTSMART-RSV surveillance program during the 2016-17 winter viral season in the United States. PLoS One 13(7):e0200319; doi: 10.1371/journal.pone.0200319. PMID: 30040837.

Pastula ST, Hackett J, Coalson J, Jiang X, Villafana T, Fryzek J. 2017. Hospitalizations for respiratory syncytial virus disease among adults in the United States, 1997 to 2012. Open Forum Infect Dis 4(1):ofw270; doi: 10.1093/ofid/ofw270. PMID: 28480262.

Fryzek J, **Pastula S**, Jiang X, Garabrant DH. 2013. Response to Goldstein et al. J Occup Environ Med 55(11):1378; doi: 10.1097/JOM.0000000000000021. PMID: 24202246.

Fryzek J, **Pastula S**, Jiang X, Garabrant DH. 2013. Childhood cancer incidence in Pennsylvania counties in relation to living in counties with hydraulic fracturing sites. J Occup Environ Med 55(7):796–801; doi: 10.1097/JOM.0b013e318289ee02. PMID: 23836020.

Reeve GR, **Pastula S**, Rontal R. 1998. A major employer as a health care services laboratory. Int J Qual Health Care 10(6):547–553; doi: 10.1093/intqhc/10.6.547. PMID: 9928594.

Sorock GS, Smith GS, Reeve GR, Dement J, Stout N, Layne L, **Pastula ST**. 1997. Three perspectives on work-related injury surveillance systems. Am J Ind Med 32(2):116–128; doi: 10.1002/(sici)1097-0274(199708)32:2<116::aid-ajim3>3.0.co;2-x. PMID: 9215434.

ABSTRACTS AND PRESENTATIONS

Suh M, Jiang X, Movva N, **Pastula ST**, Reichert H. The disease burden of RSV and bronchiolitis among United States infants in 2019-2023. Poster B-089, Poster Session B, International Society for Pharmacoepidemiology (ISPE) 42nd Annual Meeting, Milan, Italy, September 1, 2026.

Suh M, Movva N, Izikson R, La Via W, **Pastula S**, Machado MAA, Shin T, Rizzo C. The burden of respiratory syncytial virus among young children in the United States is not well-documented across settings: A systematic literature review. Abstract P2192, IDWeek, Atlanta GA, October 2025.

Price M, Suh M, **Pastula S**, Kruchko C, Ostrom Q. Pediatric low-grade glioma (pLGG) incidence in the United States from 2015 through 2019. Abstract LGG-04, Society for NeuroOncology (SNO) Pediatric Neuro-Oncology Conference, San Diego, CA, May 2025.

Suh M, Mittal L, Brorby G, **Pastula S**, Vincent M, Proctor D. Epidemiology is critical in advancing cumulative impact assessment (CIA) research: A pilot study in San Antonio, Texas. International Society of Exposure Science Annual Meeting, Montreal, Canada, October 2024.

Reichert H, Jiang X, Suh M, **Pastula S**, Movva N, Fryzek J, Simões EAF. The burden of RSV and bronchiolitis in the US infant Medicaid population extends beyond the inpatient setting. Poster 192, International Society for Pharmacoepidemiology (ICPE) annual meeting, Halifax, Nova Scotia, August 2023.

Pastula S, Suh M, Jiang X, Reichert H, Movva N, Fryzek J, Simões EAF. Respiratory syncytial virus (RSV) and bronchiolitis epidemiology among the United States infant Medicaid populations in seven states. Poster 191, International Society for Pharmacoepidemiology (ICPE) annual meeting, Halifax, Nova Scotia, August 2023.

Suh M, Reichert H, Jiang X, **Pastula ST**, Movva N, Fryzek J, Simoes E. The burden of RSV and bronchiolitis in the US infant Medicaid population extends beyond the inpatient setting. Oral presentation to the Pediatric Academic Societies meeting, Washington, DC, April 2023.

Garabrant D, **Pastula S**. Asbestos and EMP fiber potency analysis. Abstract, Oral Presentation, Monticello Conference, Charlottesville, VA, October 2017.

Ruzin A, Levin-Sparenberg E, **Pastula S**, Jiang X, Fryzek J, Tovchigrechko A, Lu B, Yu L, Hackett J, Villafana T, Esser MT. Characterization of RSV strains among U.S. patients in the OUTSMART RSV program during 2015-16. Abstract, poster presentation, ID Week 2017, San Diego, CA, October 2017.

Pastula S, Hackett J, Coalson J, Jiang X, Villafana T, Fryzek J. Burden of respiratory syncytial virus disease among adults in the United States from 1997 to 2012. Abstract, poster presentation, ID Week 2016, New Orleans, LA, October 2016.

Pastula S, Hackett J, Coalson J, Jiang X, Villafana T, Fryzek J. Burden of respiratory syncytial virus disease among adults in the United States from 1997 to 2012. Abstract, poster presentation, International Society for Influenza and Other Respiratory Virus Diseases (ISIRV) 2016 — Options IX for the Control of Influenza, Chicago, IL, August 2016.

Pastula S, Hackett J, Coalson J, Jiang X, Villafana T, Fryzek J. Burden of respiratory syncytial virus disease among adults in the United States from 1997 to 2012. Abstract, poster presentation, International Society for Pharmacoeconomics (ISPOR), Washington, D.C., May 2016.

Reeve GR, **Pastula ST**. The incidence of injuries involving robots in a large manufacturing company. Oral presentation, NIOSH National Occupational Injury Research Symposium, Morgantown, WV, October 1997.

PROTOCOL REGISTRATIONS

Bylsma L, Suh M, Movva N, **Pastula S**, Gauthier J, Itlzer R, Harrington A. 2026. Protocol for systematic literature review of efficacy/effectiveness, safety, and long-term impact of supportive care treatment in adults with primary mitochondrial diseases. PROSPERO 2026:CRD42026143005. Available from: https://www.crd.york.ac.uk/PROSPERO/view/CRD420261434005.

Movva N, Girguis M, Bylsma L, Saleem N, Grasic K, Suh M, **Pastula S**, Frankenfeld C. 2025. Systematic literature review of glucagon-like peptide 1 (GLP-1) receptor agonist use among type 2 diabetes in the United States. PROSPERO 2025:CRD4202564618. Available from: https://www.crd.york.ac.uk/PROSPERO/view/CRD42025646418.

Suh M, Movva N, **Pastula S**, Izikson R, Rizzo C, La Via W, Machado M, Shin T, Bertizzolo L. 2024. Systematic literature review of RSV in young infants and children: Epidemiology and burden. PROSPERO 2024:CRD42024599190. Available from: https://www.crd.york.ac.uk/PROSPERO/view/CRD42024599190.

Suh M, Movva N, **Pastula S**, Izikson R, Rizzo C, La Via W, Machado M, Shin T, Bertizzolo L. 2024. Systematic literature review of RSV in young infants and children: Healthcare utilization and economics. PROSPERO 2024:CRD42024599256. Available from: https://www.crd.york.ac.uk/PROSPERO/view/CRD42024599256.

Movva N, Cohen S, **Pastula S**. 2023. Systematic literature review of whole milk dairy food consumption and cardiometabolic outcomes. PROSPERO 2023 CRD42023427990. Available from: https://www.crd.york.ac.uk/PROSPERO/view/CRD42023427990.

Pastula S, Bylsma LC, Movva N, Rege S, Lewis RJ, Fryzek JP. 2023. Scoping review of indices to monitor community health. Open Science Framework. Available from: https://osf.io/nkqv2/overview.