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Engineering & Scientific Consulting

Jon Fryzek, Ph.D., M.P.H.

Principal Scientist | Health Sciences
Washington DC
+1-301-291-2564 | jfryzek@exponent.com

Professional Profile

Dr. Fryzek has extensive experience in the pharmaceutical industry and private consulting. He has led numerous studies using Real-World Evidence to understand disease patterns, including incidence and prevalence, treatment patterns, and co-morbidity assessments, supporting drug development and safety. He has studied various populations, such as community residents, medical device users, aerospace workers, chemical manufacturers, and welders, to assess the health impacts of potential exposure to substances such as pesticides, solvents, chromium, and titanium dioxide.

Dr. Fryzek has over 150 peer-reviewed manuscripts, book chapters, and scientific meeting abstracts. He has published in the *New England Journal of Medicine*, the *Annals of Internal Medicine*, the *Journal of the National Cancer Institute*, and the *Journal of Occupational and Environment Medicine*, among others, and is a scientific reviewer for a number of journals, including the *American Journal of Epidemiology*, *Cancer Epidemiology, Biomarkers and Prevention*, and the *International Journal of Cancer*. Dr. Fryzek is currently Adjunct Assistant Professor at the Georgetown University Medical Center.

Academic Credentials & Professional Honors

Ph.D., Epidemiological Science, University of Michigan, 1996

M.P.H., Epidemiology and International Health, University of Michigan, 1991

B.S., Biology, Creighton University, 1985

Academic Appointments

2020–present. Assistant Professor (adjunct), Georgetown-Howard Universities Center for Clinical and Translational Science (GHUCCTS), Georgetown University Medical Center, Washington, DC

2011–2020. Professor (adjunct), Department of Biostatistics, School of Public Health, University of Pittsburgh, Pittsburgh, Pennsylvania

2011–2016. Visiting Professor, Department of Clinical Epidemiology and Institute of Clinical Medicine, Aarhus University, Aarhus, Denmark

2006. Professor (adjunct), Department of Environmental Health Services, University of Michigan, Ann Arbor, Michigan

2000–2006. Assistant Professor, Department of Medicine, Vanderbilt University, Nashville, Tennessee.

1996–1997. Assistant Professor, Department of Preventive and Societal Medicine, College of Medicine,

University of Nebraska Medical Center, Omaha, Nebraska

1996–1997. Assistant Member, Eppley Cancer Center, University of Nebraska Medical Center, Omaha, Nebraska

1987-1989. Secondary School Teacher, Peace Corps, Eswatini.

Prior Experience

2024-2025. Senior Vice President-Epidemiology, J.S. Held LLC. Annapolis, MD

2019-2024. Principal Epidemiologist / Practice Director, EpidStrategies. Gaithersburg, MD

2012-2019. Co-founder and Director, EpidStat Institute. Washington D.C. Metro Area

2011-2012. Epidemiologist, Exponent. Washington D.C. Metro Area

2009-2010. Director Epidemiologist/ Outcomes Scientist, MedImmune. Gaithersburg, MD.

2006-2009. Director Epidemiologist, Amgen. Thousand Oaks, CA.

1997-2006. Senior Epidemiologist, International Epidemiology Institute. Rockville, MD.

Volunteer

US Peace Corps-Eswatini (Secondary School Teacher)

Activities Support Volunteer, Glenwood State Hospital (Resource Center)

Professional Affiliations

American College of Epidemiology (ACE)

International Society of Pharmacoepidemiology (ISPE)

Publications

Invited Lectures and Courses

CLTR 507. Principles of Epidemiology. Spring 2020 to current. Georgetown-Howard Universities Center for Clinical and Translational Science (GHUCCTS), Georgetown University Medical Center, Washington, DC.

Epid 624. Pharmacoepidemiology. Fall 2015. Department of Epidemiology. School of Public Health, University of Michigan, Ann Arbor.

Cancer Epidemiology: Understanding the Environmental, Behavioral and Biologic Causes of Cancer and Cancer Survivorship. (February 10, 2015, October 26, 2016, March 13, 2018, March 12, 2019). Molecular targets in Cancer. Cancer Biology. Johns Hopkins University, Rockville, Maryland.

Epidemiology in Clinical and Translation Research (February 16, 2015, February 9, 2016, February 21, 2017). Introduction to Regulatory Science. Department of Regulatory Science, Georgetown University, Washington, DC.

Introduction to Pharmacoepidemiology (April 18, 2011). Department of Epidemiology, SUNY Downstate

Medical Center, Brooklyn, New York.

Observational Research in the Pharmaceutical Industry (October 1, 2009). Department of Biostatistics, Graduate School of Public Health, University of Pittsburgh.

A Cohort Mortality Study of Titanium Dioxide Manufacturing Workers in the United States (April 29, 2004). National Institute of Occupational Safety and Health, Cincinnati, Ohio.

The Danish Registry for Plastic Surgery of the Breast (April 14, 2004). Center for Devices and Radiological Health (CDRH), U.S. Food and Drug Administration, Rockville, Maryland.

A Case-Control Study of Coffee and Pancreas Cancer (November 7, 1996). Epidemiology seminar, Department of Preventive and Societal Medicine, University of Nebraska Medical Center, Omaha.

Descriptive Epidemiology of Pancreas Cancer in Nebraska (November 5, 1996). Seminar, Pancreas Cancer Study Group, Eppley Research in Cancer, University of Nebraska Medical Center Eppley Cancer Institute, Omaha.

DDT and Related Organochlorines and Pancreas Cancer (October 31, 1996). Seminar, Eppley Research in Cancer, University of Nebraska Medical Center Eppley Cancer Institute, Omaha.

Book Chapters

Fryzek J, Frankenfeld C, Movva N, Bylsma L, Aquavella J. 2022. Insights into epidemiology. Chapter 21 in: Roberts SM, James RC, Williams PL (Eds), Principles of Toxicology: Environmental and Industrial Applications, Fourth edition. John Wiley & Sons, Inc., Hoboken, NJ, EISBN 1119635195.

Nelson CB, Broor S, Fryzek J, Wairagkar NS. 2020. Respiratory syncytial virus. Chapter 59 in: Vashishtha VM (Ed), IAP Textbook of Vaccines, Second Edition. Indian Academy of Pediatrics.

Garabrant DH, Kinnard M, Schenk MJ, Fryzek JP, Braselton E. 1998. Epidemiology of pancreatic cancer: Environmental and medical risk factors. In: Sarkar F, Dugan MC (eds). Pancreatic Cancer: Advances in Molecular Pathology, Diagnosis and Clinical Management. Natick, MA: BioTechniques Books.

Manuscripts

Kim A, Cong Z, Jazieh AR, Church TR, Reichert H, Nicholson G, Fryzek J, Cohen SS. Estimating the incremental population health impact of a multi-cancer early detection (MCED) test to complement existing screening among elevated risk populations with multiple cancer risk factors: a mathematical modeling study. BMC Health Serv Res. 2024 Dec 18;24(1):1584.

Blatt AZ, Suh M, Walter EB Jr, Wood CT, Espinosa C, Enriquez-Bruce ME, Domachowske J, Daniels D, Budhecha S, Elliott A, Wolf Z, Waddell EB, Movva N, Reichert H, Fryzek JP, Nelson CB. 2024. Trends in RSV testing patterns among infants presenting with bronchiolitis: Results from four United States health systems, 2015-2023. Ann Epidemiol 94:72–80; open access.

Blatt AZ, Suh M, Walter EB Jr, Wood CT, Espinosa C, Enriquez-Bruce ME, Domachowske J, Daniels D, Budhecha S, Elliott A, Wolf Z, Waddell EB, Movva N, Reichert H, Fryzek JP, Nelson CB. 2024. Geographic progression of infant respiratory syncytial virus associated bronchiolitis across the United States before and since the onset of COVID-19: Results from four health systems, 2015-2023. Influenza Other Respir Viruses 18(5):e13298; doi: 10.1111/irv.13298.

Yoshino T, Hooda N, Younan D, Muro K, Shitara K, Heinemann V, ... Suh M, Reichert H, Mezzi K, Fryzek J, et al. 2024. A meta-analysis of efficacy and safety data from head-to-head first-line trials of epidermal growth factor receptor inhibitors versus bevacizumab in adult patients with RAS wild-type metastatic colorectal cancer by sidedness. Eur J Cancer 202:113975, doi: 10.1016/j.ejca.2024.113975.

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*, open access.

Bylsma LC, Pundole X, Ju C-H, Hooda N, Movva N, Elkhoully E, Bebb G, Fryzek J, et al. 2023. Systematic literature review of the prevalence and prognostic value of delta-like ligand 3 protein expression in small cell lung cancer. *Target Oncol* [open access].

Daniels D, Wang D, Suryadevara M, Wolf Z, Nelson CB, Suh M, Movva N, Reichert H, Fryzek JP, Domachowske JB. 2023. Epidemiology of RSV bronchiolitis among young children in central New York before and after the onset of the COVID-19 pandemic. *Pediatr Infect Dis J*. doi: 10.1097/INF.0000000000004101, Epub ahead of print. PMID: 37725814.

Dalvi T, Nørgaard M, Fryzek JP, Movva N, Pedersen L, Hansen HP, et al. 2023. Biomarker expression and survival in patients with non-small cell lung cancer receiving adjuvant chemotherapy in Denmark. *PLoS ONE* 18(4):e0284037, <https://doi.org/10.1371/journal.pone.0284037>.

Broome CM, Hooda N, Su J, Jiang X, Nicholson G, Frankenfeld CL, Iglesias-Rodriguez M, Fryzek J, Patel Parija. 2022. Medically-attended anxiety and depression is increased among newly diagnosed patients with cold agglutinin disease: Analysis of an integrated claim-clinical cohort in the United States. *PLOS ONE* open access, <https://doi.org/10.1371/journal.pone.0276617>.

Gillezeau C, Movva N, van Gerwen M, Rabon-Stith K, Shire N, Brohawn PZ, Taioli E, Fryzek J. 2022. Interferon gamma expression and mortality in unselected cohorts of urothelial bladder cancer patients. *PLoS One* 17(8):e0271339, doi: 10.1371/journal.pone.0271339. PMID: 36040901; PMCID: PMC9426882.

Suh M, Movva N, Jiang X, Bylsma LC, Reichert H, Fryzek JP, Nelson CB. 2022. Respiratory syncytial virus (RSV) is the leading cause of United States infant hospitalizations 2009–2019: A study of the National (Nationwide) Inpatient Sample. *J Infect Dis* 226(Suppl 2):S154–S163, open access.

Movva N, Suh M, Reichert H, Hitze B, Sendak MP, Wolf Z, Carr S, Kaminski T, White M, Fisher K, Wood CT, Fryzek JP, Nelson CB, Malcolm WF. 2022. Respiratory syncytial virus during the COVID-19 pandemic compared to historic levels: A retrospective cohort study of a health system. *J Infect Dis* 226(Suppl 2):S175–S183 open access.

Suh M, Movva N, Jiang X, Reichert H, Bylsma LC, Fryzek JP, Nelson CB. 2022. Respiratory syncytial virus burden and healthcare utilization in United States infants, <1 year of age: Study of nationally representative databases, 2011–2019. *J Infect Dis* 226(Suppl 2):S184–S194, open access.

Suh M, Movva N, Bylsma LC, Fryzek JP, Nelson CB. 2022. A systematic literature review of the burden of respiratory syncytial virus disease and health care utilization among United States infants younger than 1 year. *J Infect Dis* 226(Suppl 2):S195–S212, open access.

Movva N, Suh M, Bylsma LC, Fryzek JP, Nelson CB. 2022. Systematic literature review of respiratory syncytial virus laboratory testing practices and incidence in United States infants and children <5 years of age. *J Infect Dis* 226(Suppl 2):S213–S224, open access.

Reichert H, Suh M, Jiang X, Movva N, Bylsma LC, Fryzek JP, Nelson CB. 2022. Mortality associated with respiratory syncytial virus, bronchiolitis, and influenza among infants in the United States: A birth cohort study from 1998 to 2018. *J Infect Dis* 226(Suppl 2):S246–S254, open access.

Bylsma LC, Suh M, Movva N, Fryzek JP, Nelson CB. 2022. Mortality among United States infants and children under 5 years of age with respiratory syncytial virus and bronchiolitis: A systematic literature review. *J Infect Dis* 226(Suppl 2):S267–S281, open access.

Rankin DA, Haddadin Z, Lipworth L, Stahl AL, Fryzek J, Suh M, et al. 2022. Comparison of clinical presentations and burden of respiratory syncytial virus in infants across three distinct healthcare settings in Davidson County, Tennessee. *Therapeut Adv Infect Dis*, open access online.

Anneberg M, Svane HML, Fryzek J, Nicholson G, White JB, Edris B, Smith LM, Hooda N, Petersen MM, Baad-Hansen T, Keller JØ, Jørgensen PH, Pedersen AB. 2022. The epidemiology of desmoid tumors in Denmark. *Cancer Epidemiol* 77:102114, <https://doi.org/10.1016/j.canep.2022.102114>.

Fergie J, Suh M, Jiang X, Fryzek JP, Gonzales T. 2022. Respiratory syncytial virus and all-cause bronchiolitis hospitalizations among preterm infants using the Pediatric Health Information System (PHIS). *J Infectious Dis* 225(7), available online.

Soff GA, Ray-Coquard I, Marfil Rivera LJ, Fryzek J, Mullins M, Bylsma LC, Park JK. 2022. Literature review of thrombopoietin receptor agonists for chemotherapy-induced thrombocytopenia. *PLOS One* 17(6):e0257673, open access.

Anneberg M, Svane HML, Fryzek J, Nicholson G, White JB, Edris B, Smith LM, Hooda N, Petersen MM, Baad-Hansen T, Keller JØ, Jørgensen PH, Pedersen AB. 2022. The epidemiology of desmoid tumors in Denmark. *Cancer Epidemiol* 77:102114, <https://doi.org/10.1016/j.canep.2022.102114>.

Fergie J, Suh M, Jiang X, Fryzek JP, Gonzales T. 2022. Respiratory syncytial virus and all-cause bronchiolitis hospitalizations among preterm infants using the Pediatric Health Information System (PHIS). *J Infectious Dis* 225(7), available online.

Röth A, Fryzek J, Jiang X, Reichert H, Patel P, Su J, Morales Arias J, Broome CM. 2021. Complement-mediated hemolysis persists year round in patients with cold agglutinin disease. *Transfusion* [online] 1–9; doi: 10.1111/trf.16745. Print: *Transfusion* 2022;62:51–59.

Cronin-Fenton D, Dalvi T, Movva N, Pedersen L, Hansen H, Fryzek J, Hedgeman E, Mellempgaard A, Rasmussen TR, Shire N, Hamilton-Dutoit S, Nørgaard M. 2021. PD-Lr expression EGFR and KRAS mutations and survival among stage III unresected non-small cell lung cancer patients: A Danish cohort study. *Nature: Scientific Reports*, <https://doi.org/10.1038/s41598-021-96486-2>.

Vágó EK, Nicholson G, Horváth-Puhó E, Hooda N, Fryzek JP, Su J. 2021. Healthcare resource utilization among patients with cold agglutinin disease in Denmark. *Curr Med Res Opin*, open access, <https://doi.org/10.1080/03007995.2021.1960494>.

Hedgeman E, Nørgaard M, Dalvi T, Pedersen L, Hansen HP, Walker J, Midha A, Shire N, Boothman A-M, Fryzek JP, Rigas J, Mellempgaard A, Rasmussen TR, Hamilton-Dutoit S, Cronin-Fenton D. 2021. Programmed cell death ligand-1 expression and survival in a cohort of patients with advanced non-small cell lung cancer receiving first-line through third-line therapy in Denmark. *Cancer Epidemiol* 73:101976, <https://doi.org/10.1016/j.canep.2021.101976>.

Nielson CM, Bylsma LC, Fryzek JP, Saad HA, Crawford J. 2021. Relative dose intensity of chemotherapy and survival in patients with advanced stage solid tumor cancer: A systematic review and meta-analysis. *The Oncologist* 26(9):e1609–e1618 (open access), <https://doi.org/10.1002/onco.13822>.

Levin-Sparenberg E, Bylsma LC, Lowe K, Sangare L, Fryzek JP, Alexander DD. 2020. A systematic literature review and meta-analysis describing the prevalence of KRAS, NRAS, and BRAF gene mutations in metastatic colorectal cancer. *Gastroenterol Res* 13(5):184–198. doi: 10.14740/gr1167.

Saldanha G, Ording AG, Bylsma LC, Darvalics B, Solis D, Tang JY, Sorensen HT, Fryzek J. 2020. High-frequency basal cell carcinoma in Danish patients: Prevalence and consistency. *J Eur Acad Dermatol Venereol* [Early View], <http://dx.doi.org/10.1111/jdv.16512>.

Broome CM, Cunningham JM, Mullins M, Jiang X, Bylsma LC, Fryzek JP, Rosenthal A. 2020. Increased

risk of thrombotic events in cold agglutinin disease: A 10-year retrospective analysis. *Res Prac Thrombosis Haemostasis*, open access: <https://doi.org/10.1002/rth2.12333>.

Patel P, Jiang X, Nicholson G, Frankenfeld C, Iglesias-Rodriguez M, Fryzek JP, Su J. 2020. Medically attended anxiety or depression is increased among newly diagnosed patients with cold agglutinin disease (CAD). *Blood* 136(Suppl 1):28.

Bylsma LC, Gillezeau C, Garawin TA, Kelsh MA, Fryzek JP, Sangaré L, Lowe KA. 2019. Prevalence of RAS and BRAF mutations in metastatic colorectal cancer patients by tumor sidedness: A systematic review and meta-analysis. *Cancer Med* Dec 19, doi: 10.1002/cam4.2747.

Bylsma LC, Reichert H, Gage SM, Roy-Chaudhury P, Nordyke RJ, Fryzek J, Dahl SLM, Lithgow T, Lawson JH. 2019. Clinical outcomes of arteriovenous access in incident hemodialysis patients with Medicare coverage, 2012–2014. *Am J Nephrol* 49(2):156–164, doi: 10.1159/000495355. Epub Jan 24.

Bylsma LC, Ording AG, Rosenthal A, Öztürk B, Fryzek JP, Arias JM, Röth A, Berentsen S. 2019. Occurrence, thromboembolic risk, and mortality in Danish patients with cold agglutinin disease. *Blood Advances* 3(20):2980–2985.

Bylsma LC, Dean R, Lowe K, Sangaré L, Alexander DD, Fryzek JP. 2019. The incidence of infusion reactions associated with monoclonal antibody drugs targeting the epidermal growth factor receptor in metastatic colorectal cancer patients: A systematic literature review and meta-analysis of patient and study characteristics. *Cancer Med* 8(12):5800–5809. Open access: <https://doi.org/10.1002/cam4.2413>.

Nordyke RJ, Reichert H, Bylsma LC, Jackson JJ, Gage SM, Fryzek J, Roy-Chaudhury P, Lithgow T. 2019. Costs attributable to arteriovenous fistula and arteriovenous graft placements in hemodialysis patients with Medicare coverage. *Am J Nephrol* [Online first, abstract only]: doi: 10.1159/000502507, <https://www.karger.com/Article/Abstract/502507#>.

Bylsma LC, Dean RGK, Lowe K, Sangare L, Alexander D, Fryzek J. 2019. The incidence of infusion reactions associated with monoclonal antibody drugs targeting the epidermal growth factor receptor in metastatic colorectal cancer patients: A systematic literature review and meta-analysis of patient and study characteristics. *Cancer Med* Aug 3, doi: 10.1002/cam4.2413 [Epub ahead of print]. Available at <https://onlinelibrary.wiley.com/doi/10.1002/cam4.2413>.

Bylsma LC, Reichert H, Gage S, Roy-Chaudhury P, Nordyke R, Fryzek JP, Dahl S, Lithgow T, Lawson J. 2019. Maturation, sustained use, and abandonment of arteriovenous fistula and arteriovenous graft placements in hemodialysis patients with Medicare coverage, 2012-2014. *Am J Nephrology* (in press).

Bylsma LC, Fryzek JP, Cetin K, Callaghan F, Bezold C, Mehta B, Wasser JS. 2018. Systematic literature review of treatments used for adult immune thrombocytopenia in the second-line setting. *Am J Hematol*. Sep 28.

Ruzin A, Pastula ST, Levin-Sparenberg E, Jiang X, Fryzek J, Tovchigrechko A, Lu B, Qi Y, Liu H, Jin H, Yu L, Hackett J, Villafana T, Esser MT. 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*, Jul 24, 13(7):e0200319.

Beebe-Dimmer JL, Ruterbusch JJ, Bylsma LC, Gillezeau C, Fryzek J, Schultz NM, Flanders SC, Barlev A, Heath E, Quek RGW. 2018. Patterns of bicalutamide use in prostate cancer treatment: A U.S. real-world analysis using the SEER-Medicare database. *Adv Ther* 35(9):1438–1451.

Fryzek JP, Reichert H, Summers N, Townes L, Deuson R, Alexander DD, Vanderpuye-Orgle J. 2018. Indirect treatment comparison of cabazitaxel for patients with metastatic castrate-resistant prostate cancer who have been previously treated with a docetaxel-containing regimen. *PLoS One*. 2018 Apr 11;13(4):e0195790.

Le HQ, Tomenson JA, Warheit DB, Fryzek JP, Golden AP, Ellis ED. 2018. A review and meta-analysis of occupational titanium dioxide exposure and lung cancer mortality. *J Occup Environ Med* 60(7):e356-e36.

Schwartz KL, Simon MS, Bylsma LC, Ruterbusch JJ, Beebe-Dimmer JL, Schultz NM, Flanders SC, Barlev A, Fryzek JP, Quek RGW. 2018. Clinical and economic burden associated with stage III to IV triple-negative breast cancer: A SEER-Medicare historical cohort study in elderly women in the United States. *Cancer* 124(10):2104–2114.

Mullins M, Jiang X, Bylsma LC, Fryzek JP, Reichert H, Chen EC, Kummar S, Rosenthal A. 2017. Cold agglutinin disease burden: A longitudinal analysis of anemia, medications, transfusions, and health care utilization. *Blood Adv* 1(13):839–848.

Friedman D, Fryzek J, Jiang X, Bloomfield A, Ambrose CS, Wong PC. 2017. Respiratory syncytial virus hospitalization risk in the second year of life by specific congenital heart disease diagnoses. *PLoS One* 12(3):e0172512.

Pastula ST, Hackett J, Coalson J, Jiang X, Villafana T, Ambrose C, Fryzek J. 2017. Hospitalizations for Respiratory Syncytial Virus Among Adults in the United States, 1997-2012. *Open Forum Infect Dis* 4(1):ofw270. doi: 10.1093/ofid/ofw270. eCollection 2017 Winter.

Beebe-Dimmer JL, Fryzek JP, Yee CL, Dalvi TB, Garabrant DH, Schwartz AG, Gadgeel S. 2016. Mesothelioma in the United States: A Surveillance, Epidemiology, and End Results (SEER)-Medicare investigation of treatment patterns and overall survival. *Clin Epidemiol* 8:743–750.

Alexander DD, Bylsma LC, Vargas AJ, Cohen SS, Doucette A, Mohamed M, Irvin SR, Miller PE, Watson H, Fryzek JP. 2016. Dairy consumption and CVD: A systematic review and meta-analysis - CORRIGENDUM. *Br J Nutr* 115(12):2268.

Doucette A, Jiang X, Fryzek J, Coalson J, McLaurin K, Ambrose CS. 2016. Trends in respiratory syncytial virus and bronchiolitis hospitalization rates in high-risk infants in a United States nationally representative database, 1997-2012. *PLoS One* 11(4):e0152208.

Alexander DD, Bylsma LC, Vargas AJ, Cohen SS, Doucette A, Mohamed M, Irvin SR, Miller PE, Watson H, Fryzek JP. 2016. Dairy consumption and CVD: A systematic review and meta-analysis. *Br J Nutr* 115(4):737–750.

Garabrant DH, Alexander DD, Miller PE, Fryzek JP, Boffetta P, Teta MJ, Hessel PA, Craven VA, Kelsh MA, Goodman M. 2016. Mesothelioma among motor vehicle mechanics: An updated review and meta-analysis. *Ann Occup Hyg* 60(1):8–26.

Liu B, Kerath SM, Sekeres MA, Fryzek JP, Sreekantaiah C, Mason CR, Kolitz J, Taioli E. 2015. Myelodysplastic syndromes spatial clusters in disease etiology and outcome. *Leuk Lymphoma* Oct 5:1–8.

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Moulard O, Mehta J, Fryzek J, Olivares R, Iqbal U, Mesa RA. 2014. Epidemiology of myelofibrosis, essential thrombocythemia, and polycythemia vera in the European Union. *Eur J Haematol* 92(4):289–297.

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Sevendsen ML, Gammelager H, Svaerke C, Yong M, Chia VM, Christiansen C, Fryzek JP. 2013. Hospital visits among women with breast cancer and bone metastases and skeletal-related events: A nationwide population-based study in Denmark. *Clin Epidemiol* 5:97–103.

Mitchell ME, Lowe K, Fryzek JP. 2012. A multisource approach to improving epidemiologic estimates: application to B-cell malignancies. *ISRN Oncology* 2012: Article ID 129713.

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Youk AO, Buchanich JM, Fryzek J, Cunningham M, Marsh GM. 2012. An ecological study of cancer mortality rates in high altitude counties of the United States. *High Alt Med Biol* 13(2):98–104.

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Western Denmark (1998-2003). *Clin Epidemiol* 3:91–99.

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Abstracts and Presentations

Yoshino T, Hooda N, Younan D, Shitara K, Heinemann V..., Fryzek J, et al. 2023. 127P A meta-analysis of efficacy and safety from head-to-head first-line (1L) trials of epidermal growth factor receptor inhibitors

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Blatt A, Suh M, Walter E, Jr., Wood CT, Espinosa C, Enriquez-Bruce ME...Movva N, Reichert H, Fryzek JP, et al. Seasonality of infant respiratory syncytial virus associated bronchiolitis around the US since the onset of COVID-19: Results from four US health systems 2016-17 through 2022-23. Poster 1535431, IDWeek 2023, Boston, MA, October 2023.

Nelson CB, Jiang X, Suh M, Fryzek J. Prevention of respiratory syncytial virus hospitalizations (RSVH) in US infants who paid through Medicaid would have a greater benefit for Black, Hispanic, Asian/Pacific Islander, Native American and Other race/ethnicity infants, and have a substantial impact on overall RSVH burden and related costs: Rates of respiratory syncytial virus hospitalization (RSVH) among US infants by race/ethnicity and insurance payer, NIS 2018-2020. Poster 1536169, IDWeek 2023, Boston, MA, October 2023.

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, Movva N, Fisher K, Wood CT, Wolf Z ..., Fryzek JP, et al. Pilot surveillance of infant lower respiratory tract infections and respiratory syncytial virus in the United States during the COVID pandemic. Poster 95, International Society for Pharmacoepidemiology (ICPE) annual meeting, Halifax, Nova Scotia, August 2023.

Mitchell ME, Bylsma LC, Shara NM, Fernandez SJ, Catlett JP, Lai JS, Dong K, Fryzek JP, Daver N, Allen C, Broome CM. Novel methods for the identification of a rare disease, hemophagocytic lymphohistiocytosis (HLH). Poster presented to the International Society for Pharmacoepidemiology annual meeting, Poster 166, Halifax, Nova Scotia, August 2023.

Broome CM, Mitchell M, Bylsma L, Shara N, Fernandez S, Catlett J, Lai J, Dong K, Fryzek J, Daver N, Allen C. Novel methods for the identification of a rare disease, hemophagocytic lymphohistiocytosis (HLH). Poster presented to European Hematology Association, EHA2023, Abstract P1202, Frankfurt, June 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.

Wood CT, Walter E, Wolf Z, Waddell E, Budhecha S, Espinosa CM, Enriquez-Bruce ME, Domachowske J, Daniels D, Suh M, Fryzek J, Nelson CB. Infant hospitalizations and ICU admissions for bronchiolitis and RSV-bronchiolitis are at historic highs during 2022 early seasonal disease: Results from four US health systems. Poster #637 at the Pediatric Academic Societies meeting, Washington, DC, April 2023.

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Wood CW, Walter E, Espinosa C, Enriquez-Bruce ME, Budhecha S, Elliott A, Domachowske J, Daniels D, Wolf Z, Waddell EB, Suh M, Fryzek J, Nelson CB (presenter). 2023. (1) Seasonality of infant lower respiratory tract infections, including those caused by RSV, was altered during the COVID-19 pandemic: Results from four US health systems. (2) Infant hospitalizations and ICU admissions for bronchiolitis and RSV-bronchiolitis are at historic highs during 2022 early seasonal disease: Results from four US health systems. Companion posters accepted for the 7th ReSViNET Conference, Respiratory Syncytial Virus Foundation, Lisbon, Portugal, February 2023.

Hooda N, Svane HML, Fryzek J, Nicholson G, White JB, Edris B, Smith LM, Petersen MM, Baad-Hansen T, Keller JØ, Jørgensen PH, Pedersen AB. 2021. The epidemiology of desmoid tumors in Denmark. Poster presented at the Connective Tissue Oncology Society Annual Meeting, November 2021.

Movva N, Suh M, Jiang X, Reichert H, Bylsma L, Rizzo CP, White M, Fryzek J, Nelson CB. Medicaid infants have the highest respiratory syncytial virus (RSV) hospitalization burden and rates among United States (US) infants aged <1 year: An analysis of the 2011–2018 National (Nationwide) Inpatient Sample (NIS). Abstract accepted for AAP Experience, National Conference & Exhibition (American Academy of Pediatrics), Philadelphia, PA, October 2021.

Suh M, Movva N, Bylsma L, Demont C, Rizzo C, Fryzek J, Nelson CB. Systematic literature review (SLR) of respiratory syncytial virus (RSV) burden and health care utilization (HCU) among infants in the United States (US). Poster presentation at 37th ICPE (International Conference on Pharmacoepidemiology & Therapeutic Risk Management), virtual conference, August 2021.

Bylsma L, Nielson CM, Fryzek J, Saad H, Crawford J. Chemotherapy relative dose intensity, overall survival, and hematologic toxicity in olid-tumor cancer patients: A literature review and meta-analysis. Poster presentation at 37th ICPE (International Conference on Pharmacoepidemiology & Therapeutic Risk Management), virtual conference, August 2021.

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Vágó EK, Nicholson G, Horváth-Puhó E, Hooda N, Fryzek JP, Su J. Healthcare resource utilization among patients with cold agglutinin disease in Denmark. Poster presentation to European Hematology Association Congress (Abstract EP1193), June 2021, online.

Broome CM, Patel P, Jiang X, Iglesias-Rodriguez M, Fryzek J. Increased antidepressant use among newly diagnosed patients with cold agglutinin disease compared with other patients in a large US healthcare system. Poster presentation to European Hematology Association Congress (Abstract EP1180), June 2021, online.

Fergie J, Gonzales T, Suh M, Jiang X, Fryzek JP, Hooda N, Howard A, Bloomfield A. Higher-risk congenital heart disease (CHD) among children aged ≤ 24 months with respiratory syncytial virus hospitalizations (RSVH) and all-cause bronchiolitis hospitalizations (BH). 37th Annual Children's National Symposium: ECMO and the Advanced Therapies for Cardiovascular and Respiratory Failure, Feb 2021.

Malcolm W, Fisher K, Wood CT, Movva N, Suh M, Wolf Z, Balu S, Sendak M, Hintze B, White M, Fryzek J, Nelson CB. Infant lower respiratory tract infections, including those caused by RSV, are significantly below historical levels during the COVID-19 pandemic. Pediatrics Academic Societies 2021, April–May 2021.

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Hölmich LR, Kjøller K, Fryzek J, Jacobsen PH, McLaughlin JK, Friis S. Implant rupture and self-reported symptoms in unselected Danish women with cosmetic silicone breast implants. 9th Congress of European Societies of Plastic, Reconstructive and Aesthetic Surgery (ESPRAS), Rome, Italy. Sept. 16-20, 2001,

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Project Experience

- Authored over 150 peer-reviewed publications, including in the New England Journal of Medicine (NEJM), Journal of the American Medical Association (JAMA), and the Journal of the National Cancer Institute (JNCI)
- Reviewer for leading journals such as the American Journal of Epidemiology, Cancer Epidemiology, and the International Journal of Cancer
- Led major occupational and environmental health studies, including assessments of pesticides, chromium, titanium dioxide, and aerospace workers
- In support of drug and medical device development, conducted extensive research on cancer, medical devices, respiratory syncytial virus (RSV), rare diseases, and chemotherapy safety

Peer Reviews

American Journal of Industrial Medicine

American Journal of Epidemiology

Annals of Epidemiology

BMC Public Health

Cancer

Cancer, Causes and Control

Cancer Epidemiology, Biomarkers and Prevention

Clinical Epidemiology

Environmental Health Perspectives

Epidemiology

Gastrointestinal Cancer: Targets and Therapy

International Journal of Cancer

Journal of Cancer Epidemiology

Journal of Exposure Analysis and Environmental Epidemiology

Journal of Medical Economics

Oncology