

## Lisa M. Lines, PhD, MPH

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### Summary

Senior researcher and assistant professor with 25+ years of experience in consulting, research, evaluation, and analytics and a strong track record of more than 200 publications and presentations. Focus on understanding the complex relationships among our individual characteristics, where we get care and from whom, where we live, and our health outcomes. Emphasis on data science, AI applications in healthcare, bioinformatics, and other advanced quantitative methods.

### Education

- **PhD in Clinical and Population Health Research** University of Massachusetts Chan Medical School, Worcester, MA, USA
  - Dissertation: Outpatient emergency department utilisation: Measurement and prediction
  - Advisor: Arlene S. Ash, PhD
- **MPH** University of Massachusetts, Amherst, MA, USA
  - Thesis: Out-of-pocket healthcare expenditures for cancer patients in the United States: Findings from the Medical Expenditure Panel
- **BS in Technical Communication/Health Sciences** Northeastern University, Boston, MA
  - *Summa cum laude* (with highest honors)

### Employment History

- **Lisa Lines Consulting** (*independent solo consultancy, Christchurch, NZ*)
  - ◆ Principal (Jan 2026 – present)
    - Providing services include strategic planning, healthcare consulting, business development, writing and editing, and research/evaluation for international firms and academic organizations
- **RTI International** (*independent, non-profit research institute; more than 5,000 employees worldwide*)
  - ◆ Senior Health Services Researcher and Research Health Economist (2020-Present)
    - Focus on access to care, quality of care, and costs with special emphasis on chronic conditions

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- Led nearly \$20 million in contract and grant-funded research and evaluation projects ranging in size and scope for both public- and private-sector clients, including NCI, NIDA/SAMHSA, CDC, and CMS
- ◆ Director, [RTI Rarity](#)<sup>™</sup> (2019-Present)
  - Led cross-functional team using advanced AI/ML and data science methods to generate validated, research-ready composite indices based on more than 200 indicators across 13 conceptual domains
    - Indices demonstrate consistently higher predictive validity compared to others in common use, providing public health authorities with a superior tool for directing funding to the highest-impact opportunities
  - Interactive dashboard at [RTIRarity.io](#) maps ML-driven composite indices and other data layers
  - Curated data library used on more than 50 projects to date across the health, justice, education, and environment practice areas at RTI International
  - Contributed to winning more than \$30M in new business in FY23 and \$160M in FY24, funded by numerous Federal agencies, including NCI, SAMHSA, NIDA, CDC, and CMS, among others
  - Recognized with a 2023 Enterprise Award from RTI Commercialization, an Editorial Board Award from *RTI Press* in 2023, and a Disruptive Tech Award from FedHealthIT in 2022
- ◆ Health Services Researcher (2013-2020)
  - Led the proposal and recompetete process and directed RTI's multi-year, multi-million \$ contracts with the National Cancer Institute's Surveillance, Epidemiology, and End Results (SEER), including the linkages with CAHPS (since 2015) and MHOS (since 2020)
  - Led the revision and cognitive testing of the Home Health CAHPS survey
  - Contributed to quantitative and economic evaluations of multiple Federally funded health innovations (eg, alternative payment models)
  - Collaborated on multiple projects focused on Alzheimer's disease and related dementias
- ◆ Health Services Research Associate (2010-2013)
  - Selected projects: quality measures in post-acute care settings; survey research on risk factors for substance abuse among adolescents; assessing the prevalence of disability in Europe
- ◆ Senior Health Outcomes Scientist, RTI Health Solutions (2009-2010) (*pharmacoeconomic division of RTI International*)
  - Selected projects: health economic and epidemiologic literature reviews and research in lupus, atherosclerosis, osteoporosis, and several different cancers; meta-analytic and health economic modelling projects; proposal development
- **University of Massachusetts Chan Medical School** (*public medical school, Worcester, MA, USA*)
  - ◆ Assistant Professor, Quantitative Health Sciences Department (2019-present)
  - ◆ Instructor (2015-2019)
  - ◆ Graduate Research Assistant (2010-2013)
- **Boston Health Economics** (*boutique health economics consulting firm, Waltham, MA, USA*)
  - ◆ Research Manager (2008-2009)

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- ◆ Research Analyst (2006-2008)
- **ORA Clinical Research and Development** (*clinical research organization, North Andover, MA, USA*)
  - ◆ Medical Writer (2005-2006)
- **Bristol Group/Mitretek Healthcare** (*hospital and healthcare consulting firm, Cambridge, MA, USA*)
  - ◆ Consultant Associate, Analyst/Editorial Specialist (2002-2005)

### Selected Honours and Awards

- **Enterprise Award**, RTI International – Commercialization (2023) - recognizing RTI Rarity's exceptional product growth (contributed to \$30M in awards in FY22 and more than \$160m in awards in FY23)
- **Editorial Board Award**, RTI Press (2023) - awarded to authors of the best paper published by the press in the prior year
- **Disruptive Tech Award**, FedHealthIT (2022) - recognizing RTI Rarity as an innovative new government technology product
- **Innovation Awards**, RTI International (2020 - 2024) - competitive awards for pursuing innovative projects using Institute funding
- **Excellence in Mentorship Award**, RTI International (2021) - recognized as a mentor in a successful mentoring relationship
- **Highly Published Author Award**, RTI International (2010, 2017 - 2023) - recognized as author of more than 3 peer-reviewed publications in a year
- **Medical Care Section Award**, American Public Health Association (2018) - recognized for service to the section
- **Highly Cited Author Award**, RTI International (2017, 2023) - recognized as author of paper cited more than 50 times within 5 years of publication
- **Early Career Author Award**, RTI International (2015) - recognized as author of high-quality peer-reviewed journal articles in early career
- **Internal Research & Development Award**, RTI International (2014) - competitive award for pursuing research ideas using Institute funding
- **R36 Dissertation Award**, Agency for Healthcare Research and Quality (2013) - highly competitive award for doctoral dissertation research
- **Professional Development Award**, RTI International (2013) - competitive award for pursuing professional development projects using Institute funding

### Selected Professional Service and Memberships

- **AcademyHealth**: Reviewer of abstracts submitted for the annual meeting (2010-present)
- **American Public Health Association**, Medical Care section: Health Equity Committee Chair (2016-23), Section councilor (2013-15), Membership chair (2012-15)
- **Gerontological Society of America** (2015-17)
- **National Quality Forum**: Neurology Project Standing Committee (3-year appointment, 2015–17)
- **International Society for Pharmacoeconomics and Outcomes Research** (2009-10)

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### Selected Editorial Service

- *Medical Care*: Editorial Board, Special Editor for Digital Media
- *RTI Press*: Deputy Editor and Reviewer
- Reviewer: *Frontiers in Oncology, Cancer Causes and Control, Cancer, International Journal of Health Policy and Management, PLOS One, American Journal of Public Health, American Journal of Managed Care, Patient Experience Journal*

### Teaching

- Guest Lecturer: “Life Expectancy and Local Social Inequity,” Pennsylvania State University (2022)
- Guest Lecturer: “Moderation and Mediation Analyses,” University of Kansas Medical School (2019)
- Webinar: “Physical Activity Prescriptions: Models of Behaviour Change,” American Public Health Association (2019)
- Doctoral seminar (invited speaker) - “Can Primary Care Really Influence Emergency Department Use?” University of Southern California, Keck School of Medicine, 12 graduate students/postdocs/faculty (2019)
- Career seminar (invited speaker) - “Insert Clever Title Here: Research... and What Comes Afterward”. University of Massachusetts Graduate School of Biomedical Sciences, 20 graduate students/postdocs/faculty (2019)
- Doctoral Seminar (invited speaker) - “Insert Clever Title Here: Health Services Research... and What Comes Afterward”. Brandeis University, 25 graduate students (2018)
- Data Integration Methods Seminar (invited speaker) – “Data Integration, Management, and Dissemination.” RTI, 45 researchers (2018)
- Webinar – “Awesome accepted abstracts.” APHA Medical Care Section, 100 attendees (2017)
- Brown Bag Seminar: Socioeconomic Status Adjustment (invited speaker), RTI, 25 researchers (2017)
- Global Health Seminar (invited speaker), UMMS, 7 medical residents (2015)
- BRIDGE Seminar (lecturer), UMMS, 25-30 graduate students and faculty (2013)
- QHS Research Group (panelist), UMMS, 20-25 graduate students (2013)
- Journal Club (co-moderator), UMMS, 10-15 graduate students (2012)
- Semester at Sea Instructor, Scientific Communication (course developer/lecturer), Sea Education Assoc., 26 undergrads (2006)

### Mentoring and Advising

- Intern Supervisor, Gaining Equity in Training for Public Health Informatics and Technology (GET PHIT) program, UTHealth Houston (Spring 2022–2025)
- Intern Supervisor, University of Southern California Master’s in Computer Science (2022-2024)
- PhD Program External Committee Member for Dr. Awo Osei-Anto, Brandeis University, Health Services Research (2017 - 2025)
- Mentor for APHA Medical Care Section student mentoring program: Volunteer mentor to graduate students (2014-2019)

Selected Grants and Contracts

- **RTI Rarity**; Principal Investigator and Project Director (2019 to 2025)
  - Developed a large data library of social and behavioural drivers of health and a suite of tailored composite risk scores using machine learning (ML) and data science
  - Funded by roughly \$250k in Institute grants during start-up and pilot phases; contributed to winning more than \$30M in new business in FY23 and \$160M in FY24 across more than 50 projects funded by US government agencies (CDC, CMS, NIH, NIDA, SAMHSA, and others)
- **Title X Family Planning Research: Innovative Service Delivery Models**; Task Lead (2022-25)
  - 3-year, \$2M grant from the US Health & Human Services, Office of Population Affairs
  - Developed novel composite index using ML across the US, California, and Los Angeles County
- **SEER-CAHPS and SEER-MHOS data linkage and research projects**; Project Director, Senior Advisor (2015-2024)
  - Consecutive and overlapping 5-year, \$2M in contracts to lead multiple data linkage, data science, health economic, and care experience research projects for two US National Cancer Institute datasets
  - Developed novel machine-learning composite score predicting mortality within 5 years after cancer diagnosis among Medicare enrollees
  - Co-authored and led multiple quantitative studies using the linked Medicare claims, administrative, and survey data to examine care experiences, outcomes (including mortality and costs), and utilization (such as hospice and palliative care)
- **HEALing Communities Study: Developing and Testing an Integrated Approach to Address the Opioid Crisis**; Health Equity Workgroup Lead (2019 - 2024)
  - 5-year, \$40M community/cluster-randomized clinical trial in four states aimed to reduce opioid overdoses funded by the US National Institute on Drug Abuse and the Substance Abuse and Mental Health Services Agency
  - Developed novel machine-learning composite score predicting drug overdose mortality in 4 states using area-level social data
- **Health Care Innovation Awards**; Task Lead (2013 - 2022)
  - Centers for Medicare & Medicaid Services (CMS) Center for Medicare and Medicaid Innovation (CMMI) evaluation contract
  - Task lead for integrating novel neighborhood-level social risk scores in analysis of core outcomes among Medicare and Medicaid enrollees
- **Multi-Payer Advanced Primary Care Practice (MAPCP) Demonstration**; Task Lead (2014 - 2016)
  - CMMI evaluation contract
  - Evaluation task lead for special populations analysis of core outcomes (costs, emergency department utilization, primary care utilization) among enrollees in medical homes
- **Home Health (HH) CAHPS**; Task Lead (2011 - 2023)
  - Multi-year CMS implementation and monitoring contract (multiple renewals)
  - Responsible for analyses including co-authoring a chartbook and multiple peer-reviewed journal articles, site visits, monitoring interviewers for instrument fidelity, redeveloping the HHCAHPS survey, cognitive testing.

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### Peer-Reviewed Publications

#### Book Chapters

1. Lines, L. M., Pooler, J. A., & Burnett, J. (2021). Economic issues in healthy aging. In E. Jurkowski, & A. Guest (Eds.), *Healthy Aging Through the Social Determinants of Health*. APHA Press.  
<https://doi.org/10.2105/9780875533162ch17>
2. Lines, L. M. (2020). Big data and predictive modeling using a large administrative dataset to understand population-level changes in emergency department use. In *SAGE Research Methods Cases: Medicine and Health*. <https://dx.doi.org/10.4135/9781529744514>
3. Lines, L. M. (2012). Economic impact of addiction. In *Salem Health: Addictions and Substance Abuse*. Salem Press.
4. Lines, L. M. (2012). Prevention methods and research. In *Salem Health: Addictions and Substance Abuse*. Salem Press.
5. Lines, L. M. (2011). Aging and infectious disease. In *Salem Health: Infectious Diseases and Conditions*. Salem Press.
6. Lines, L. M. (2011). Foodborne illness and disease. In *Salem Health: Infectious Diseases and Conditions*. Salem Press.
7. Lines, L. M. (2008). Financial issues. In J. A. Knight, W. White-Ryan, & L. Jackson-Grusby (Eds.), *Salem Health: Cancer*. Salem Press.
8. Lines, L. M. (2008). Macrobiotic diet. In J. A. Knight, W. White-Ryan, & L. Jackson-Grusby (Eds.), *Salem Health: Cancer*. Salem Press.
9. Lines, L. M. (2008). Risks for cancer. In J. A. Knight, W. White-Ryan, & L. Jackson-Grusby (Eds.), *Salem Health: Cancer*. Salem Press.
10. Lines, L. M. (2008). Survival rates. In J. A. Knight, W. White-Ryan, & L. Jackson-Grusby (Eds.), *Salem Health: Cancer*. Salem Press.
11. Lines, L. M. (2008). Soy foods. In J. A. Knight, W. White-Ryan, & L. Jackson-Grusby (Eds.), *Salem Health: Cancer*. Salem Press.

#### Journal Articles

1. Menzin, J., Lines, L. M., & Manning, L. N. (2007). The economics of squamous cell carcinoma of the head and neck. *Current Opinion in Otolaryngology & Head and Neck Surgery*, 15, 68–73.
2. Menzin, J., Lines, L. M., & Marton, J. (2009). Estimating the short-term clinical and economic benefits of smoking cessation: Do we have it right? *Expert Review of Pharmacoeconomics and Outcomes Research*, 9, 257–264.
3. Lang, K., Lines, L. M., Lee, D. W., Korn, J. R., Earle, C. C., & Menzin, J. (2009). Lifetime and treatment phase costs associated with colorectal cancer: Evidence from SEER-Medicare data. *Clinical Gastroenterology and Hepatology*, 7, 198–204.
4. Lang, K., Korn, J. R., Lee, D. W., Lines, L. M., Earle, C.C., & Menzin, J. (2009). Factors associated with improved survival among elderly colorectal cancer patients in the US: A population-based analysis. *BMC Cancer*, 9, 227. doi:10.1186/1471-2407-9-227

5. Lang, K., Lines, L. M., Lee, D. W., Korn, J. R., Earle, C. C., & Menzin, J. (2009). Trends in healthcare utilization among older Americans with colorectal cancer: A retrospective database analysis. *BMC Health Services Research*, 9, 227. doi:10.1186/1472-6963-9-227
6. Menzin, J., Zhang, B., Neuman, P. J., Lines, L. M., Polly, D. W., Barnett-Myers, et al. (2010). A health-economic assessment of cervical disc arthroplasty compared with allograft fusion. *Techniques in Orthopedics*, 25, 133–137.
7. Menzin, J., Lines, L. M., Weiner, D. E., Neumann, P. J., Nichols, C. I., Rodriguez, L., et al. (2011). A review of the costs and cost-effectiveness of interventions in chronic kidney disease: Implications for policy. *PharmacoEconomics*, 29, 839–861.
8. Lines, L. M., Urato, M., Halpern, M. T., & Subramanian, S. (2014). Insurance coverage and preventive care among adults. RTI Press, RR-0021-1404. Available at: [www.rti.org/publications/rtipress.cfm?pubid=22713](http://www.rti.org/publications/rtipress.cfm?pubid=22713)
9. Lines, L. M., Sherif, N., Wiener, J. (2014). Racial and ethnic disparities among individuals with Alzheimer’s disease in the United States: A literature review. RTI Press, RR-0024-1412. Available at: [www.rti.org/publications/rtipress.cfm?pubid=23763](http://www.rti.org/publications/rtipress.cfm?pubid=23763)
10. Lines, L. M., Lepore, M., Wiener, J. (2015). Patient-centered, person-centered, and person-directed care: They are not the same [commentary]. *Med Care*, 53(7), 561-563.
11. Mollica, M., Lines, L. M., Halpern, M. T., Ramirez, E., Schussler, N. C., Urato, Matthew, . . . Kent, E. E. (2017). Patient experiences of cancer care: scoping review, future directions, and introduction of a new data resource: Surveillance Epidemiology and End Results–Consumer Assessment of Healthcare Providers and Systems (SEER-CAHPS). *Patient Experience Journal*, 4(1), 103–121.
12. Smith, L. M., Anderson, W. L., Lines, L. M., Pronier, C., Thornburg, V., Butler, J. P., . . . Goldstein, E. (2017). Patient experience and process measures of quality of care at home health agencies: Factors associated with high performance. *Home Health Care Services Quarterly*, 36(1), 29–45. doi: 10.1080/01621424.2017.1320698.
13. Mollica, M., Enewold, L., Lines, L. M., Halpern, M. T., Schumacher, J., Hays, R. D., Gibson, J. T., Schussler, N., Kent, E. E. (2017). Examining colorectal cancer survivors' surveillance patterns and experiences of care: a SEER-CAHPS study. *Cancer Causes and Control*, 28(10), 1133–1141.
14. Lines, L. M., Rosen, A.R., Ash, A.S. (2017) Enhancing administrative data to predict emergency department utilization: The role of neighborhood sociodemographics. *J Health Care Poor Underserved*, 28(4), 1487–1508. doi:10.1353/hpu.2017.0129.
15. Halpern, M. T., Urato, M. P., Lines, L. M., Cohen, J. B., Arora, N. K. & Kent, E. E. (2018). Healthcare experience among older cancer survivors: Analysis of the SEER-CAHPS dataset. *Journal of Geriatric Oncology*, 9(3), 194-203.
16. Lines, L. M., Anderson, W. L., Blackmon, B. D., Pronier, C. R., Allen, R. W., & Kenyon, A. E. (2018). Qualitative analysis and conceptual mapping of patient experiences in home health care. *Home Health Care Services Quarterly*, 37(1), 25–40. doi:10.1080/01621424.2017.1421490.
17. Lines, L. M., & Williams, J. A. (2018). Introducing Fresh Voices: Commentaries from the Medical Care Blog [editorial]. *Medical Care*, 56(9), 755.
18. Lines, L. M., Li, N.-C., Mick, E. O., Ash, A.S. (2018) Emergency department and primary care use in Massachusetts five years after health reform. *Med Care*.

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19. Horner, R.D. & Lines, L. M. (2019) Anatomy of Constructive Peer Review Review [editorial]. *Med Care*. 2019;57(6):399-400.
20. Halpern, M. T., Mollica, M., Lines, L. M., Cohen, J., & Kent, E. E. (2019). SEER-CAHPS: A national population-based data resource to evaluate patient-centered cancer care. *Cancer Research*, 79(13 Supplement). <https://doi.org/10.1158/1538-7445.AM2019-3366>
21. Lines, L. M., Anderson, W. L., Gordek, H., & Kenyon, A. E. (2020) Risk adjustment in Home Health Care CAHPS [Letter]. *American Journal of Managed Care*. 26(2), 58. <https://doi.org/10.37765/ajmc.2020.42391>
22. Lines, L. M., Tangka, F. K. L., Hoover, S., & Subramanian, S. (2020). People with colorectal cancer in SEER-Medicare: Part D uptake, costs, and outcomes (RTI Press Publication No. RR-0037-2005). RTI Press. <https://doi.org/10.3768/rtipress.2020.rr.0037.2005>
23. Lines, L. M., Cohen, J., Kirschner, J., Halpern, M. T., Kent, E. E., Mollica, M. A., & Smith, A. W. (2020). Random survival forests using linked data to measure illness burden among individuals before or after a cancer diagnosis: Development and internal validation of the SEER-CAHPS illness burden index. *International Journal of Medical Informatics*, 145, 104305. <https://doi.org/10.1016/j.ijmedinf.2020.104305>
24. Lines, L. M. (2020). Games people play: Lessons on performance measure gaming from New Zealand; Comment on “Gaming New Zealand’s Emergency Department Target: How and Why Did It Vary Over Time and Between Organisations?” *International Journal of Health Policy and Management*, 10(4), 225–227. <https://doi.org/10.34172/ijhpm.2020.41>
25. Lines, L. M., Barch, D. H., Zabala, D. C., Halpern, M. T., Jacobsen, P., & Mollica, M. (2020). Associations between perceptions of care experiences and receipt of mental health care among older adults with cancer. *Journal of Clinical Oncology*, 38(29\_suppl), 175. [https://doi.org/10.1200/jco.2020.38.29\\_suppl.175](https://doi.org/10.1200/jco.2020.38.29_suppl.175)
26. Halpern, M. T., Cohen, J., Lines, L. M., Mollica, M. A., & Kent, E. E. (2021). Associations between shared care and patient experiences among older cancer survivors. *Journal of Cancer Survivorship*, 15(2), 333–343. <https://doi.org/10.1007/s11764-020-00934-3>
27. DiMartino, L. D., Kirschner, J., Jackson, G. L., Mollica, M. A., & Lines, L. M. (2021). Are care experiences associated with survival among cancer patients? An analysis of the SEER-CAHPS data resource. *Cancer Causes & Control: CCC*, 32(9), 977–987. <https://doi.org/10.1007/s10552-021-01451-z>
28. Lines, L. M., Barch, D. H., Zabala, D., Halpern, M. T., Jacobsen, P. B., & Mollica, M. A. (2022). Associations between mental health and care experiences among older adults with cancer. *Psycho-Oncology*, 31(9), 1491–1501. <https://doi.org/10.1002/pon.5966>
29. Lines, L. M., Cohen, J., Kirschner, J., Barch, D. H., Halpern, M. T., Kent, E. E., Mollica, M. A., & Smith, A. W. (2022). Associations between illness burden and care experiences among Medicare beneficiaries before or after a cancer diagnosis. *Journal of Geriatric Oncology*, 13(5), 731–737. <https://doi.org/10.1016/j.jgo.2022.02.017>
30. Lines, L. M., Long, M. C., Humphrey, J. L., Nguyen, C. T., Scanlon, S., Berzin, O. K. G., Brown, M. C., and Bir (2022). Artificially Intelligent Social Risk Adjustment: Development and Pilot Testing in Ohio. RTI Press Publication No. RR-0047-2209. Research Triangle Park, NC: RTI Press. <https://doi.org/10.3768/rtipress.2022.rr.0047.2209>

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31. Bland, C., Zuckerbraun, S., Lines, L. M., Kenyon, A., Shouse, M. H., Hendershott, A., ... & Djangali, A. L. (2022). Challenges facing CAHPS surveys and opportunities for modernization. RTI Press Publication No. RR-0047-2209. Research Triangle Park, NC: RTI Press. Available at: <https://doi.org/10.3768/rtipress.2022.op.0080.2211>
32. Allaire, B. T., Zabala, D., Lines, L. M., Williams, C., Halpern, M., & Mollica, M. (2023). Associations between healthcare costs and care experiences among older adults with and without cancer. *Journal of geriatric oncology*, 14(7). <https://doi.org/10.1016/j.jgo.2023.101561>
33. Davis, A., Stringer, K. L., Drainoni, M. L., Oser, C. B., Knudsen, H. K., Aldrich, A., ... & El-Bassel, N. (2023). Community-level determinants of stakeholder perceptions of community stigma toward people with opioid use disorders, harm reduction services and treatment in the HEALing Communities Study. *International Journal of Drug Policy*, 122, 104241.
34. Lines, L. M., Long, M. C., Zangeneh, S., DePriest, K., Piontak, J., Humphrey, J., & Subramanian, S. (2023). Composite indices of social determinants of health: Overview, measurement gaps, and research priorities for health equity. *Population Health Management*, 26(5), 332-340.
35. Allaire, B. T., Horvath, M. L., Lines, L. M., Davidoff, A. J., Smith, A. W., & Jensen, R. E. (2024). Do Contemporary Cancer Survivors Experience Better Quality of Life? Evaluating a Decade of SEER Medicare Health Outcomes Survey Data. *Cancer Epidemiology, Biomarkers & Prevention*. 33(4), 593-599.
36. Lines, L. M., & Weech-Maldonado, R. (2024). The Immigrant Paradox: Health Advantages and Health Barriers Among Foreign-Born Americans. *Medical Care*, 62(11), 703-705.
37. Lines, L. M., Fowler, C. I., Kaganova, Y., Peacock, K. (2024). Development and validation of a community risk score for sexual and reproductive health in the United States. *Health Affairs Scholar*. 2024 Jul 27;2(7):qxae048. <https://pmc.ncbi.nlm.nih.gov/articles/PMC11282459/>
38. Cesare, N., Lines, L. M., Chandler, R., Gibson, E. B., Vickers-Smith, R., Jackson, R., ... & Oga, E. (2025). Development and validation of a community-level social determinants of health index for drug overdose deaths in the HEALing Communities Study. *Journal of Substance Use and Addiction Treatment*, 157, 209186.
39. Lines LM, Fujita M, Danforth KN, Barch DH, Halpern MT, Mollica MA, Eton DT, Smith AW. (2026). Hospice, palliative care, and care experiences among Medicare beneficiaries with cancer. *Journal of Geriatric Oncology*. 2026 Jan 1;17(1):102795. <https://pubmed.ncbi.nlm.nih.gov/41187486/>

### Non-Peer-Reviewed Publications and Reports

1. Lines, L. M., Oga, E., User Guide: Local Social Inequity in Drug Overdoses (LSI-DO) – HCS version. (2023). Prepared for the HEALing Communities Study.
2. Lines, L. M. and the RTI Rarity team (2023). RTI Rarity Dashboard. Available at: [RTIRarity.io](https://RTIRarity.io).
3. Lines, L. M. (2020). Handling missing data in SEER-CAHPS. Training video. <https://healthcaredelivery.cancer.gov/seer-cahps/researchers/handling-missing-data.html>
4. Anderson, W. L., Lines, L. M., Gordek, H., Jones, J. M., & Kenyon, A. E. (2019). Home Health Care CAHPS survey chartbook, 2019. CMS. <https://homehealthcahps.org/General-Information/Chartbook>
5. Kenyon, A. E., Lines, L. M., With, S. K., Flanigan, T. S., Thornburg, V. E., & Anderson, W. L. (2018). Summary of discussions at the July 20, 2018 technical expert panel meeting: National implementation of the Home Health Care CAHPS Survey.

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6. Lines, L. M., With, S. K., Flanigan, T. S., & Kenyon, A. E. (2018). Key informant feedback on the Home Health Care CAHPS® Survey and recommended changes.
7. Nichols, D., Haber, S., Romaine, M., Wiener, J., Leung, M., Smith, K., ... Lines, L. M. (29 others). (2017, June). Evaluation of the Multi-Payer Advanced Primary Care Practice (MAPCP) Demonstration: Final Report. Prepared for Centers for Medicare & Medicaid Services.
8. Gilman, B., Barterian, L., Ellis, L., Felt-Lisk, S., Grannemann, T., Hoag, S., Kimmey, L., Lines, L. M., et al. (2016, August). Evaluation of the round two health care innovation awards (HCIA R2): First annual report. Prepared for Centers for Medicare & Medicaid Services.
9. Nichols, D. R., Haber, S. G., Romaine, M. A., Wiener, J. M., Leung, M. Y., Smith, K. W., West, N. D., Sorensen, A. V., Farrell, K. M., Spain, P. C., Siegfried, N. R., Kissam, S. M., Lines, L. M., et al. (2016, April). Evaluation of the Multi-Payer Advanced Primary Care Practice (MAPCP) Demonstration: Third annual report. Prepared for the Centers for Medicare & Medicaid Services.
10. Nichols, D. R., Haber, S. G., Romaine, M. A., Wiener, J. M., Leung, M. Y., Smith, K. W., West, N. D., Sorensen, A. V., Farrell, K. M., Spain, P. C., Siegfried, N. R., Kissam, S. M., Beadles, C. A., Kandilov, A. M., Keyes, V. S., Urato, C. J., Larsen, C. A., Lines, L. M., et al. (2016, April). Evaluation of the Multi-Payer Advanced Primary Care Practice (MAPCP) demonstration: Second annual report. Prepared for the Centers for Medicare & Medicaid Services.
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### Media Appearances

1. Lines, L. M., & Wiener, J. M. (2015, May). Ethnic and racial disparities in Alzheimer's disease. Media interview at WNCU: The Measure of Everyday Life.
2. Lines, L. M. ASTHO Podcast Interview: Ep 209: New Tool Predicts PH Risks, featuring Dr. Lisa Lines (2022, June). <https://newscast.astho.org/209-new-tool-predicts-ph-risks/>

### Blog Posts and Podcasts

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26. Lines, L. M. (2017, Dec). Awesome accepted abstracts webinar materials. The Medical Care Blog. <http://www.themedicalcareblog.com/awesome-accepted-abstracts/>

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28. Lines, L. M. (2018, Mar). The myth of female hysteria and health disparities among women. The Medical Care Blog. <http://www.themedicalcareblog.com/female-hysteria-myth-disparities/>
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33. Miguel, R.T. and Lines, L. M. (2018, Oct.) Insurance-Based Discrimination: Evidence and Consequences. The Medical Care Blog. <https://www.themedicalcareblog.com/insurance-based-discrimination/>
34. Lines, L. M. (2018, Nov.). Health Wonk Review – November 2018. The Medical Care Blog. <https://www.themedicalcareblog.com/hosts-health-wonk-review-2018-11/>
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36. Lines, L. M. (2019). Stroke risk has declined in the US — for some groups more than others. The Medical Care Blog. <https://www.themedicalcareblog.com/stroke-risk-trends/>
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39. Lines, L. M., & Sokol, K. (2020). Adjusting publicly reported performance measures for social risk factors. Blog/Web publication, The Medical Care Blog. Retrieved from <https://www.themedicalcareblog.com/adjusting-for-social-risk-factors/>
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41. Lines, L. M., & Humphrey, J. (2021). Imputing race/ethnicity—Part 1. The Medical Care Blog. <https://www.themedicalcareblog.com/imputing-race-ethnicity-1/>
42. Lines, L. M., & Humphrey, J. (2021). Imputing race/ethnicity—Part 2. The Medical Care Blog. <https://www.themedicalcareblog.com/imputing-race-ethnicity-2/>
43. Lines, L. M. (2021). How an ‘artificially intelligent’ local social risk score can improve population health on the path toward health equity. Blogs & Web publications, RTI International. <https://www.rti.org/insights/ai-local-social-risk-score-covid-19>

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52. Lines, L. M. (2022). Social drivers of cancer mortality: Part 2. The Medical Care Blog. <https://www.themedicalcareblog.com/social-drivers-cancer-mortality-2/>
53. Lines, L. M. (2022). SDoH in same-sex couple hotspots and coldspots. The Medical Care Blog. <https://www.themedicalcareblog.com/sdoh-same-sex-couple-hotspots/>
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56. Lines, L. M. and Fowler, C. I. (2022). Long-acting reversible contraception in the era of abortion bans. The Medical Care Blog. <https://www.themedicalcareblog.com/larc-methods-abortion-bans/>
57. Lines, L. M. and Stevens, G. (2022). Top Posts of 2019-2022. The Medical Care Blog. <https://www.themedicalcareblog.com/top-posts-2019-2022/>
58. Lines, L. M. (2023). Healthy Intersections Podcast: January 2023. The Medical Care Blog. <https://www.themedicalcareblog.com/podcastjan23/>
59. Lines, L. M. (2023). Pain: no longer a vital sign? The Medical Care Blog. <https://www.themedicalcareblog.com/pain-no-longer-vital-sign/>
60. Lines, L. M. (2023). Healthy Intersections Podcast: Illinois Social Inequities (April 2023) with Carol Schmitt. The Medical Care Blog. <https://www.themedicalcareblog.com/podcast-april-2023/>
61. Lines, L. M. (2023). Racial and ethnic segregation in primary care. The Medical Care Blog. <https://www.themedicalcareblog.com/primary-care-segregation/>
62. Lines, L. M. (2023). Healthy Intersections Podcast: Oklahoma Social Inequities (May 2023) with Carol Schmitt. The Medical Care Blog. <https://www.themedicalcareblog.com/may-2023-podcast/>

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63. Lines, L. M. (2023). Healthy Intersections Podcast: North Carolina Social Inequities (June 2023) with Carol Schmitt and Juliet Sheridan. The Medical Care Blog. <https://www.themedicalcareblog.com/podcast-june-2023/>
64. Lines, L. M. (2023). Healthy Intersections Podcast: Life expectancy in Florida (July 2023) with Lauren Pierce. The Medical Care Blog. <https://www.themedicalcareblog.com/podcast-july-2023/>
65. Lines, L. M. (2023). Health equity: mistakes to avoid when conducting research. The Medical Care Blog. <https://www.themedicalcareblog.com/avoid-research-mistakes/>
66. Lines, L. M. (2023). Healthy Intersections Podcast: Drug Overdoses (August 2023) with Jeremy Ney and Amanda Onwuka. The Medical Care Blog. <https://www.themedicalcareblog.com/podcast-aug-2023/>
67. Lines, L. M. (2023). Healthy Intersections Podcast: Food and Climate (September 2023) with Carol Schmitt and Robert Beach. The Medical Care Blog. <https://www.themedicalcareblog.com/podcast-aug-2023/>
68. Lines, L. M. (2023). Healthy Intersections Podcast: Suicide and SDoH (October 2023). The Medical Care Blog. <https://www.themedicalcareblog.com/podcast-october2023/>
69. Lines, L. M. (2023). Healthy Intersections Podcast: Structural Racism (November 2023) with Zach Dyer. The Medical Care Blog. <https://www.themedicalcareblog.com/podcast-november-2023/>
70. Lines, L. M. (2024). Healthy Intersections Podcast: Talking About Plastics (January 2024) with Imari Franklin-Walker. The Medical Care Blog. <https://www.themedicalcareblog.com/healthy-intersections-plastics-2024-01/>
71. Lines, L. M. (2024). Healthy Intersections Podcast: Healthcare's Carbon Footprint (February 2024) with David Introcaso. The Medical Care Blog. <https://www.themedicalcareblog.com/podcast-healthcare-carbon-footprint/>
72. Lines, L. M. (2024). Healthy Intersections Podcast: COVID-19, 4 Years Later (March 2024) with Christina van Hal and Nate Rowan. The Medical Care Blog. <https://www.themedicalcareblog.com/podcast-covid-19-4-years-later/>
73. Lines, L. M. (2024). Connections between planetary and human health (April 2024). The Medical Care Blog. <https://www.themedicalcareblog.com/planetary-human-health/>
74. Lines, L. M. (2024). Healthy Intersections Podcast: Alzheimer's Disease & Related Dementias (June 2024). The Medical Care Blog. <https://www.themedicalcareblog.com/podcast-adrd-2024-06/>
75. Lines, L. M. (2024). Healthy Intersections Podcast: Ocean Health and Human Health (July 2024). The Medical Care Blog. <https://www.themedicalcareblog.com/podcast-ocean-human-health/>
76. Lines, L. M. (2024). Healthy Intersections Podcast: Local Climate Impact (August 2024). The Medical Care Blog. <https://www.themedicalcareblog.com/podcast-local-climate-impact/>
77. Lines, L. M. (2024). Healthy Intersections Podcast: Celebrating Our Blogiversary with Greg Stevens and Ben King. The Medical Care Blog. <https://www.themedicalcareblog.com/podcast-blogiversary-editors/>
78. Lines, L. M. (2024). Healthy Intersections Podcast: Racial Residential Segregation with Kristen Brown. The Medical Care Blog. <https://www.themedicalcareblog.com/podcast-racial-segregation/>
79. Lines, L. M. (2025). 2025: Our Year in Review (December 2025). <https://www.themedicalcareblog.com/2025-review/>
80. Lines, L. M. and Fowler, C. (2026). Political drivers of sexual and reproductive health (January 2026). <https://www.themedicalcareblog.com/political-drivers-sexual-reproductive-health/>

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### Invited Presentations: National

1. Lines, L. M. Measuring Impact of Policy Strategies on Health Equity. Panel discussion. AcademyHealth Annual Research Meeting. Seattle, WA. June 2023.
2. Lines, L. M. Data Science for Health Equity. Briefing to the Office of Rep. Cheri Bustos, 17th Congressional District, Illinois. Virtual. November 2022.
3. Lines, L. M. Introduction to RTI Rarity™. CMMI Health Equity Core Team. Virtual. November 2022.
4. Lines, L. M. Introduction to RTI Rarity™. Association of State and Territorial Health Officials (ASTHO). Virtual. October 2022.
5. Lines, L. M. Building Health Equity with Data Science. Assistant Secretary for Planning and Evaluation (ASPE). Virtual. April 2022.
6. Lines, L. M. Artificially intelligent risk adjustment for social drivers of health. Agency for Healthcare Research and Quality (AHRQ) Center for Financing, Access, and Cost Trends (CFACT). Virtual. February 2022.
7. Lines, L. M., Humphrey, J., Brown, M. RTI Rarity: Data science for health equity. Invited presentation, CMS Tech Talk Conference. Virtual. March 2022.
8. Lines, L. M. Local Social Inequity in Cancer Mortality. Joint Center on Geospatial Analysis & Health (a joint initiative of UTHealth School of Public Health and MD Anderson). Virtual. May 2022.
9. Lines, L. M. Artificially intelligent risk adjustment for social risk factors. CMS Industry Day. Virtual. December 2021.
10. Lines, L. M. Artificially intelligent risk adjustment for social risk factors. Centers for Medicare and Medicaid Innovation (CMMI) Health Equity Webinar. Virtual. December 2021.
11. Lines, L. M., Mollica, M., Halpern, M., Kent, E., Gaillot, S., Buckenmaier, S., Smith, A.W. Methodological considerations for studies on cancer patient experiences of care using the SEER-CAHPS Data Resource. National Cancer Institute. Virtual. April 2019.
12. Lines, L. M. Racial and ethnic disparities among individuals with Alzheimer's disease and related dementias in the United States. National Alzheimer's and Dementia Resource Center. Virtual. January 2016.
13. Lines, L. M., & Wiener, J. M. Translating research into action: Addressing disparities in Alzheimer's disease and related dementias. AARP National Policy Council Roundtables, Washington, DC. October 2015.

### Invited Presentations: Local

14. Lines, L. M. Ethics & Equity in Healthcare: How Diversity and Human-Centered Design Improves Value-Based Care. AI.LA Annual Life Summit 2022. Santa Monica, CA, October 2022
15. Lines, L. M. AI.LA Open Innovation Challenge Kickoff. Artificial Intelligence Los Angeles, Santa Monica, CA, September 2022
16. Lines, L. M. Patient-centered, person-centered, and person-directed care: They are not the same. Academic Innovations Collaborative of the Harvard Medical School Center for Primary Care, Cambridge, MA. August 2015

**National and International Conference Posters and Presentations**

1. Fujita, M., Lines, L. M., Barch, D. H., & Danforth, K. N. (2023). Hospice, palliative care, and care experiences among Medicare beneficiaries with cancer. APHA 2023 Annual Meeting and Expo, Atlanta, GA.
2. Allaire, B., Lines, L. M., Horvath, M., Davidoff, A., Smith, A., & Jensen, R. (2023, June). Has Quality of Life Improved Among Older Cancer Survivors over Time? Evaluating a Decade of SEER-Linked Medicare Health Outcomes Survey Data. AcademyHealth Annual Research Meeting, Seattle, WA.
3. Fowler, C., Lines, L. M., Tilley, A., Peacock, K., Bourgin, E., & Kaganova, Y. (2023, June). Using a Local Social Inequity Index Adapted for Sexual and Reproductive Health to Study Equitable Access to Federally Funded Family Planning Services. AcademyHealth Annual Research Meeting, Seattle, WA.
4. Lines, L. M. Using Areal Data on Social Determinants to Predict Sexual and Reproductive Health Outcomes. AcademyHealth Annual Research Meeting. Seattle, WA.
5. Helwig, A., Lines, L. M., Uribe, C. Next-Generation Analytics: Using RTI Rarity's Local Social Inequity Scores to Fulfill Health Equity Accreditation Plus Requirements. NCQA Health Innovation Summit. Washington, DC. 2022.
6. Lines, L. M., Clayton, D. H. At-risk identification using AI and social determinants. HIMSS21, Las Vegas, NV. 2021.
7. Lines, L. M. Artificial intelligence meets social determinants meets risk adjustment. Academy Health National Health Policy Conference and Health Datapalooza. Virtual. 2021.
8. DiMartino, L. D., Kirschner, J., Huebeler, A., Jackson, G. L., Mollica, M., & Lines, L. M. Associations of care experiences with survival among people with cancer in SEER-CAHPS, 2006 to 2017. American Society of Clinical Oncology (ASCO) Quality Care Symposium. Virtual. 2020.
9. Lines, L. M., Kirschner, J., Halpern, M., Kent, E., Mollica, M., & Smith, A. Illness burden is associated with care experience measures among Medicare beneficiaries surveyed before or after a cancer diagnosis. APHA 2020 Annual Meeting and Expo. Virtual.
10. Lines, L. M., Barch, D. H., Zabala, D., Halpern, M. T., Jacobsen, P., & Mollica, M. Associations between perceptions of care experiences and receipt of mental health care among older adults with cancer. *Journal of Clinical Oncology*, 38 (29\_suppl), 175. doi: 10.1200/JCO.2020.38.29\_suppl.175. Oral presentation at ASCO Quality Care Symposium. Virtual. 2020.
11. Halpern, M. T., Cohen, J. B., Lines, L. M., Mollica, M., & Kent, E. Quality of care for cancer survivors: Does a model of shared care affect experience of care? ASCO Quality Care Symposium, San Diego, CA. 2020.
12. Halpern, M. T., Cohen, J. B., Lines, L. M., Mollica, M., & Kent, E. Association of cancer survivors' sociodemographic characteristics with survivorship care patterns. <https://doi.org/10.1158/1538-7755.DIS18-B010>. AACR Conference on the Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved; New Orleans, LA. 2019.
13. Halpern, M. T., Mollica, M. A., Lines, L. M., Cohen, J. B., & Kent, E. SEER-CAHPS: A national population-based data resource to evaluate patient-centered cancer care. American Association for Cancer Research annual meeting, Atlanta, GA. 2019.
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20. Mandl S, McMullen TL, Reilly K, Thaker S, Smith L, Deutsch A, Lines, L. M., Schwartz ML. IMPACT Act of 2014 quality domains/measures: Design & implementation on an urgent timeline. Gerontological Society of America Annual Meeting, Orlando FL. 2015.
21. Lines, L. M., Nobel, L. A., Ash, A. S. Problems with problem lists? Discordant information in claims data and electronic medical record problem lists. AcademyHealth ARM, San Diego, CA. 2014.
22. Lines, L. M., Allison, J., & Ash, A. Quantile regression analysis of the effect of health maintenance organization enrollment on medical expenditures. International Conference on Conference on Health Policy Statistics, Cleveland, OH. 2012.
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26. Lines, L. M., Menzin, J., Lang, K., Korn, J. R., & Neumann, P. Predictors of enrollment in Medicare Part D: Are beneficiaries rational? Annual meeting of the International Society for Pharmacoeconomics and Outcomes Research, Orlando, FL. 2009.
27. Lines, L. M., Lang, K., Wallace, J., & Menzin, J. Out-of-pocket costs among women with breast cancer: Data from the Medical Expenditure Panel Survey, 1996–2005. San Antonio Breast Cancer Symposium, San Antonio, TX. 2008.
28. Lines, L. M. Out-of-pocket healthcare expenditures for cancer patients in the United States: Findings from the Medical Expenditure Panel Survey. Health Services and Outcomes Research Conference, Houston, TX. 2008.

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30. Lines, L. M., Lang, K., Lee, D. W., Korn, J. K., Earle, C., & Menzin, J. Changes over time in stage distribution and survival among elderly colorectal cancer patients in the US. Annual meeting of the American Society of Clinical Oncology, Chicago, IL. 2008.
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35. Lines, L. M. (2006, November). Local wellness policies in Massachusetts: Do they make the grade? Annual meeting of the American Public Health Association, Washington, DC.

## Professional Development and Certifications

### IBM: AI Developer Professional Certificate

- Introduction to Artificial Intelligence (AI) – 8 hours (completed September 2, 2023)
- Getting Started with AI using IBM Watson – 6 hours (completed September 3, 2023)
- Building AI Powered Chatbots Without Programming – 12 hours (completed September 8, 2023)
- Python for Data Science, AI & Development – 25 hours (completed February 26, 2024)
- Generative AI: Introduction and Applications – 3 hours (completed February 27, 2024)
- Generative AI: Prompt Engineering Basics – 5 hours (completed February 27, 2024)
- Developing AI Applications with Python and Flask – 11 hours (completed April 5, 2024)
- Building AI Applications with Watson APIs – 15 hours (completed April 10, 2024)

**Johns Hopkins: Exploring Algorithmic Bias as a Policy Issue** (completed March 16, 2024)

**Data Science Professional Certificate** (HarvardX via EdX; in progress)

- Data Science: R Basics – 8 hours (in progress)

**Data Representation and Visualization in Tableau** (RITX via EdX; in progress)

**Certified Editor in Life Sciences**, Board of Editors in Life Sciences (bels.org), 2006