

SEER-MHOS is a publicly accessible data resource combining cancer registry and patient survey data on health outcomes in cancer. This data resource is a linkage between the National Cancer Institute's (NCI) Surveillance, Epidemiology, and End Results (SEER) cancer registry data and the Centers for Medicare & Medicaid Services' (CMS) Medicare Health Outcomes Survey (MHOS) patient surveys. These data provide a rich opportunity to examine cancer health outcomes, such as health-related quality of life and activities of daily living, along with clinical and epidemiologic information.

The SEER-MHOS Team at NCI is excited to share the following updates:



Propensity matching allows for group comparisons. Guidance is now available on how to apply these methods using SEER-MHOS data. Please visit our website for more information and examples applying these methods allowing for comparisons across cancer types and/or between those diagnosed with cancer and those without cancer.

Learn more: <a href="https://healthcaredelivery.cancer.gov/seer-mhos/program/propensity-score-matching.html">https://healthcaredelivery.cancer.gov/seer-mhos/program/propensity-score-matching.html</a>



SEER-MHOS now allows census tract-level information to be linked reflecting neighborhood level information at the time of survey administration. Researchers shared an example of using the census-level information in a SEER-MHOS analysis during our first webinar of 2024 (watch the recording here). To learn more about the census-tract level information currently available, visit:

https://healthcaredelivery.cancer.gov/social-determinants/



**Question Corner:** Which SEER registries are included in the SEER-MHOS data resource?

There are currently 21 SEER registries included in SEER-MHOS, including four from California, three from Georgia, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Kentucky, Louisiana, New Jersey, Idaho, New York, Massachusetts, and Texas. Registry participation has changed over time, so not every registry includes each year or variable of SEER-MHOS available. More information on SEER

registries included in SEER-MHOS can be found on our <u>Overview of SEER webpage</u> and the <u>SEER-MHOS</u> <u>Cancer File Data Dictionary</u>.

## Recent SEER-MHOS Publications:

- Krok-Schoen et al. (2024). Social determinants of health and depressive symptoms before and after cancer diagnosis. Read
- Wu et al. (2024). Evaluating the Impact of Race and Ethnicity on Health-Related Quality of Life
  Disparities in Patients with Esophageal Cancer: A SEER-MHOS National Database Study. Read
- Zheng et al. (2023). Health-related quality of life among prostate cancer survivors with metastatic disease and non-metastatic disease and men without a cancer history in the USA. Read

A <u>full list of publications</u> can be found on the SEER-MHOS website.

Are you submitting a manuscript using SEER-MHOS data? Remember to follow our manuscript clearance process: https://healthcaredelivery.cancer.gov/seer-mhos/support/submission.html

## **Latest Data Release:**

The SEER-MHOS team is excited to share the data you can get in our latest data release:

- ✓ Link to census-level data at the date of cancer diagnosis and time of survey
- ✓ Detailed Medicare Advantage plan-level data, including plan types, monthly and annual enrollment figures, cost information (premiums and cost-sharing), and quality ratings. Use this data to analyze healthcare utilization patterns, assess quality of care outcomes, and explore relationships between plan characteristics and cancer-related health measures.
- ✓ New SEER registries
- ✓ SEER Cancer Registry Data, Medicare Health Outcome Surveys, and Prescription Drug Claims through 2021

If you have questions about the SEER-MHOS data or any of our tools, contact us here.

Thank you for your continued support of SEER-MHOS!

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