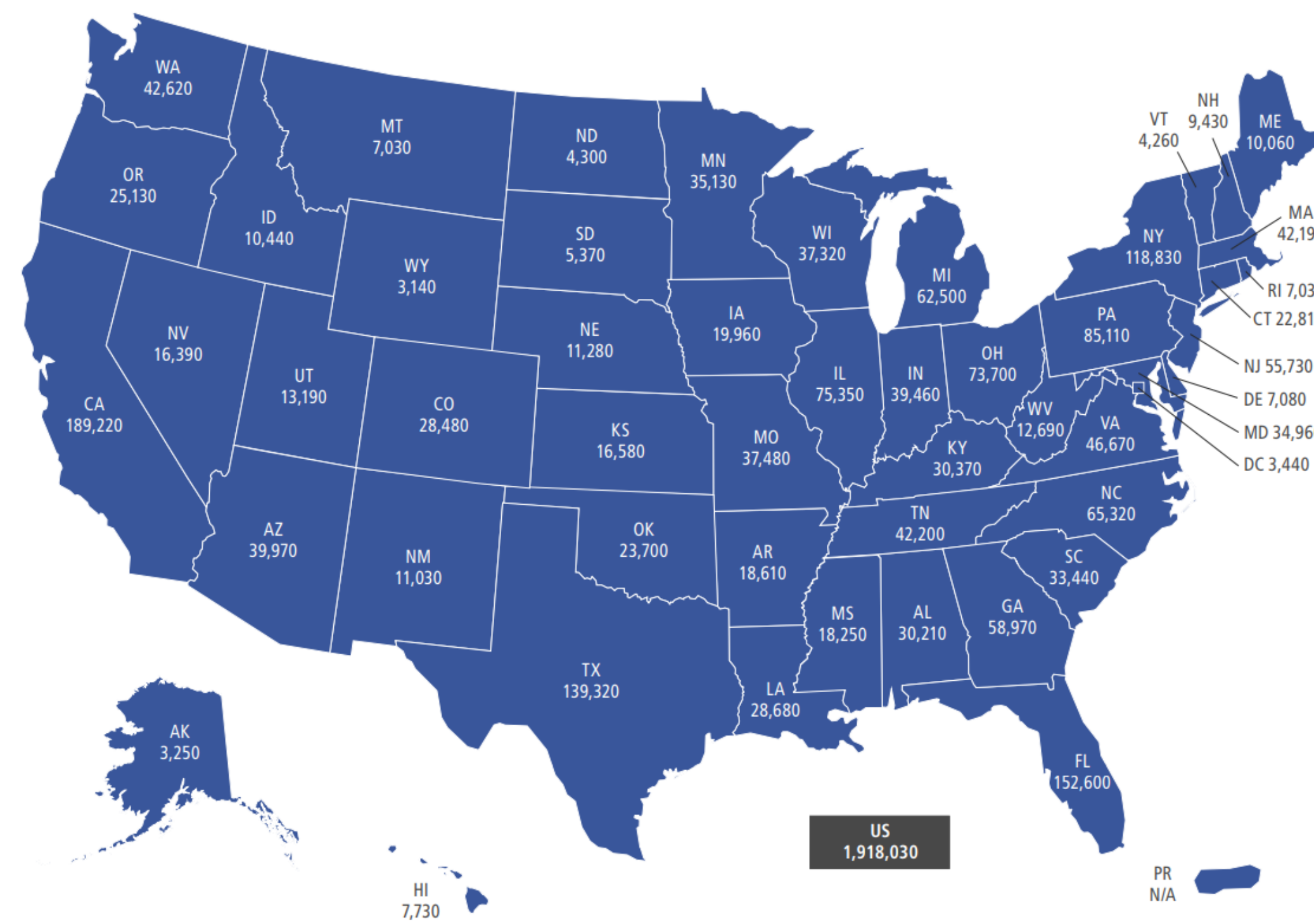


# Depression, chronic pain, and high-impact chronic pain among individuals with a history of cancer

Meng Chen, MSGH Candidate



## OBJECTIVES



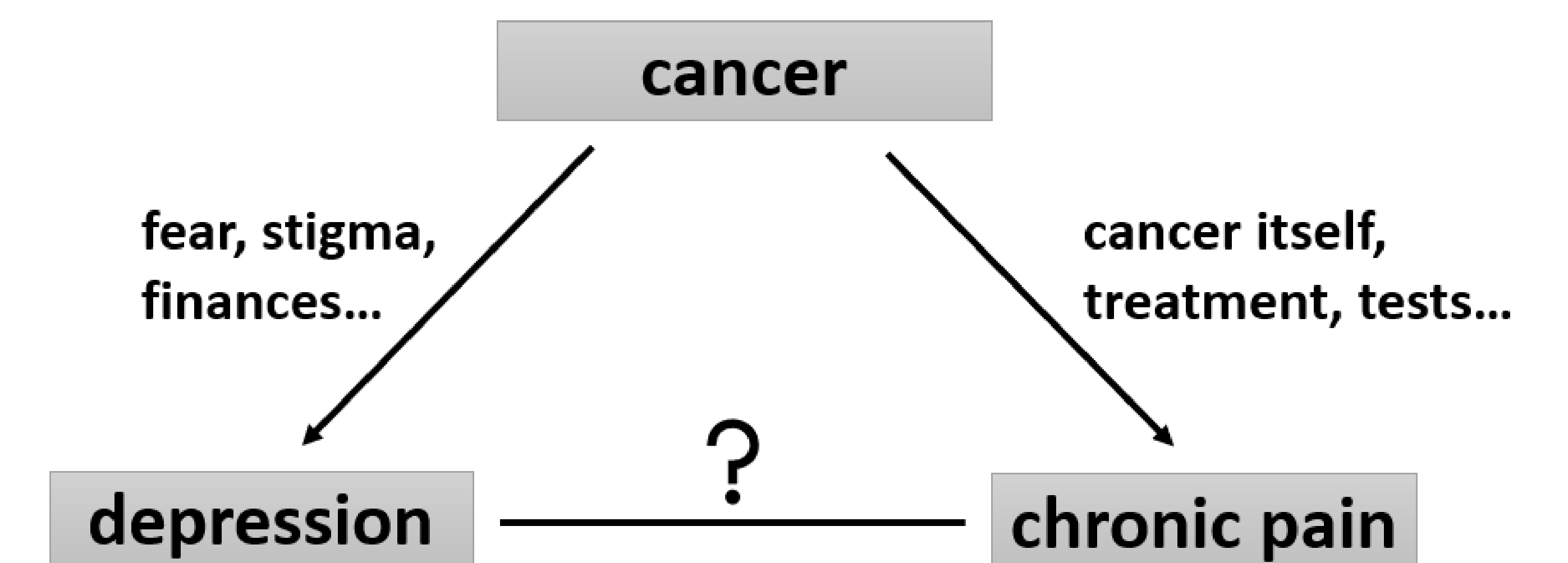
Estimated number of new cancer cases for 2022, American Cancer Society, Cancer Facts & Figures 2022.

- **Background:** Pain and cancer are two common challenges faced by the 17 million individuals living with cancer in the United States
- **Gaps:** However, it remains unclear whether there is an association between depression and chronic pain, especially high-impact chronic pain (HICP), and whether there is an increasing prevalence of chronic pain and high-impact chronic pain among individuals with a history of cancer
- **Objectives:** This study examined prevalence trends of chronic pain and HICP among individuals with a cancer history, as well as the association between chronic pain and depression within this population, with the aim of improving cancer care and mitigating health disparities

## MATERIALS

- **Data source:**
  - The National Health Interview Survey (NHIS), an annual cross-sectional household interview survey (2010-2021)
- **Study sample:** Adult respondents with a history of cancer and non-missing data of chronic pain and HICP
- **Outcomes of interest:**
  - 1) Chronic pain:
    - Survey question: In the past 6 months, how often did you have pain? Would you say never, some days, most days, or every day?
    - Definition: Pain on most days or every day during the past 6 months
  - 2) HICP:
    - Survey question: Over the past 6 months, how often did your pain limit your life or work activities? Would you say never, some days, most days, or every day?
    - Definition: Pain that limited life or work activities on most days or every day during the past 6 months
- **Key covariates:**
  - 1) Depression:
    - Survey question: Have you ever been told by a doctor or other health professional that you had any type of depression?

## STATISTICAL ANALYSES



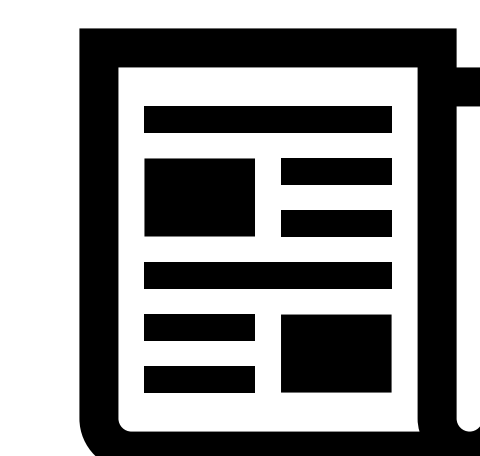
Relationship between depression and chronic pain among cancer survivors

- **Trends:** Joinpoint regression analyses of chronic pain and HICP among individuals with a history of cancer
- **Association:** Logistic regression analyses among individuals with a history of cancer, weighting for complex survey sampling and adjusting for sociodemographic variables

## SIGNIFICANCE



**Improve cancer survivor care:** Shed light on the link between chronic pain, HICP and depression, guiding healthcare interventions



**Inform policies and support:** Enable more targeted efforts to alleviate the mental health burden of chronic pain and HICP among cancer survivors