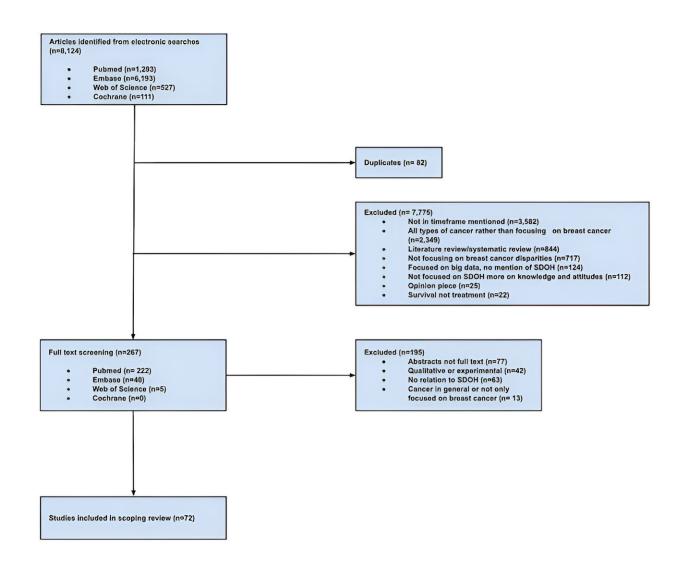


Study underscores social factors of low breast cancer screening in the US

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PRISMA-ScR flow chart of study selection process. Credit: *Frontiers in Public Health* (2024). DOI: 10.3389/fpubh.2024.1354717



There is a pressing need to explore and understand which social determinants of health (SDOH) and health inequities act as significant, influential factors that contribute to low breast cancer screening behaviors in the United States.

Health disparities have been consistently associated with delayed <u>screening</u>, which then contributes to higher mortality rates among both Hispanic and Black populations. Moreover, poverty, lack of education, neighborhood disadvantage, residential segregation, <u>racial discrimination</u>, lack of social support, and social isolation also play a role in the breast cancer stage at diagnosis.

Researchers from Florida Atlantic University's Schmidt College of Medicine conducted a scoping review of 72 peer-reviewed <u>observational</u> <u>studies</u> published between 2013 and 2023 to identify the major SDOH that hinder breast cancer screening in women aged 40 and older in the U.S. They focused on race/ethnicity, employment, education, food security, <u>insurance status</u>, housing and access to quality health care.

Results, published in the journal *Frontiers in Public Health*, showed that among the various SDOH identified, those related to <u>socioeconomic</u> <u>status</u> exhibited the highest frequency. Specifically, factors such as income, <u>education level</u>, employment status, birthplace/citizenship, acculturation/years lived in the U.S., marital status, social support, and number of children were among the key elements.

Access to health care emerged as a statistically significant theme (61 percent of the studies), with sub-categories such as insurance status, accessibility of health care services and providers, insurance coverage, access to mammography facilities, insurance co-payments, time from breast cancer diagnosis to first treatment, travel time to clinic and county uninsured rate.



Insurance status was the most reported sub-categorical factor of access to quality health care. Many of the studies in the review demonstrated a strong association between a lack of health insurance and a lower rate of breast cancer screening.

"One of the most influential roles of social determinants of health lies within the realm of equitable access," said Lea Sacca, Ph.D., senior author and an assistant professor in the Department of Population Health and Social Medicine, FAU Schmidt College of Medicine. "Results from our research could inform future evidence-based interventions aimed at addressing the underlying factors contributing to low screening rates for breast cancer in the country."

Race/ethnicity, sex/gender, and sexual orientation were additional factors reported. Fifty-eight percent of the studies showed <u>statistical</u> <u>significance</u> in the social and community context category, with the highest sub-categories being age and ethnicity. Ethnic minority women, with the exception of those identifying as Asian, had a lower likelihood of being screened, and Black women experienced a higher risk of diagnosis upon first screening.

White bisexual women had significantly lower mammography rates than white heterosexual women, while mammography rates were significantly higher for bisexual Black women than for heterosexual Black women.

Language was the third highest issue, highlighting its significance as an influential factor in screening behavior. In addition, 38 percent of the studies exhibited statistical significance in the economic stability category, with <u>income level</u> (27 percent) being the most common subcategorical indicator emphasized. Women with estimated household incomes greater than \$38,100 have been found to have rates of repeat mammography higher than those of women below \$25,399.



Both high levels of poverty and impoverished rural regions were associated with lower screening rates. In addition to household income, <u>food security</u> was another influential factor in mammography rates.

"When women are forced to choose between feeding their families and pursuing preventive care, mammography becomes more of a luxury than lifesaving care," said Sacca. "Women facing food insecurity have a 54 percent lower likelihood of getting a mammogram."

Thirty-three percent of the articles showed statistical significance in education access and quality as strong indicators of mammography rate, with the highest level of education completed acting as the strongest subcategorical factor.

Location, transportation, housing, county poverty rate, internet access, area deprivation index, diversity index, perceived discrimination, health beliefs and trust in health care providers/systems, and cultural and religious beliefs also were cited in the review. For example, fatalism-emphasizing religions (fate or destiny), were associated with less screening adherences and maintenance of modesty did not prove a significant limitation for women receiving mammograms.

"Improving patient-provider communication, addressing perceived discrimination, and improving trust in the health care system is necessary to improve screening rates across all demographics," said Sacca.

"Additionally, structural efforts to improve health insurance coverage, language proficiency, and transportation services could be beneficial. These steps will need to involve the local community to develop community-tailored educational campaigns to reinforce the importance of establishing regular mammogram screenings."

More information: Vama Jhumkhawala et al, Social determinants of



health and health inequities in breast cancer screening: a scoping review, *Frontiers in Public Health* (2024). DOI: 10.3389/fpubh.2024.1354717

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