

Study finds obesity contributes to 40% mortality gap between Black and white women with early breast cancer

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In an analysis of women with early breast cancer, Black women had higher rates of obesity and other health conditions that can affect survival, compared with white women. The findings are published early online in *Cancer*, a peer-reviewed journal of the American Cancer Society (ACS).

Obesity is a known risk factor for various cancers, and its rise over the past few decades has contributed to a rise in breast [cancer](#) rates that is greater in Black [women](#) than white women. At the same time, as breast cancer mortality rates have declined, the decline has been less pronounced in Black women, producing a 40% mortality gap.

To investigate further, Kirsten Nyrop, Ph.D., of the University of North Carolina at Chapel Hill, and her colleagues analyzed information concerning 548 patients treated at their hospital for early breast cancer. The team found that 62% of Black patients and 33% of white patients fell within the obese weight range, and higher percentages of Black women had [obesity](#)-related comorbidities, such as hypertension, diabetes, and high cholesterol, than [white women](#). Yet, despite significant differences in the prevalence of obesity and comorbidities, there were no differences between Black and white patients in treatment decisions with regard to type of surgery, chemotherapy, radiation, or endocrine therapy.

"Early breast cancer is highly treatable, and [survival rates](#) have improved steadily due to treatment advances and early detection through mammograms; however, the high rates of obesity, overall comorbidities, and obesity-related comorbidities observed among women with early breast cancer—especially among Black women—can contribute to disparities in overall survival of these patients," said Dr. Nyrop. "Findings from this study need to be considered within the larger context of

the cancer-obesity link and the disparate impact of the obesity epidemic on communities of color in the United States."

Dr. Nyrop noted that rates of many cancers that are impacted by obesity are higher in Black women as are rates of numerous obesity-related conditions such as diabetes and hypertension. "As the COVID-19 pandemic has glaringly underscored, there is an urgent need to address the systemic and socioeconomic aspects of obesity that disproportionately affect minority communities in the U.S. if we are to reverse health disparities."

An accompanying editorial stresses that clinicians should "take advantage of the breast cancer diagnosis as an opportunity for interventions that can be far-reaching." The authors note that several lifestyle interventions can not only address obesity but also potentially prolong survival in patients with cancer.

More information: "Obesity, comorbidities and treatment selection in Black and White women with early breast cancer." Kirsten A. Nyrop, Emily M. Damone, Allison M. Deal, Lisa A. Carey, Michael Lorentsen, Shlomit S. Shachar, Grant W. Williams, Addison (Tucker) Brenizer, Amy Wheless, and Hyman B. Muss. *Cancer*, Published Online: December 7, 2020, [DOI: 10.1002/cncr.33288](https://doi.org/10.1002/cncr.33288)

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