

Diet may affect risk recurrence of some breast cancers

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Image courtesy of Blausen Medical

"This is the first study to suggest that it may be possible to personalize [dietary recommendations](#) for breast cancer survivors based on [molecular characteristics](#) of their primary tumor tissue," the authors write.

One of the authors disclosed financial ties to a pharmaceutical company. Because the costs of publication were defrayed in part by the payment of page charges, this article must be marked as an advertisement.

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(HealthDay)—Personalized dietary recommendations based on molecular characteristics of primary tumor tissue may be an effective strategy for breast cancer survivors, according to research published in the July issue of *Cancer Epidemiology Biomarkers & Prevention*.

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Jennifer A. Emond, M.D., of the Moores UCSD Cancer Center in San Diego, and colleagues conducted a nested, case-control study of 265 postmenopausal [breast cancer survivors](#) to assess the association between carbohydrate intake and recurrence of breast cancer.

The researchers found that half of the primary breast tumors were positive for the insulin-like growth factor-I (IGFI) receptor. Factors separately associated with increased risk of [breast cancer recurrence](#) were IGFI receptor-positive status (hazard ratio [HR], 1.7; 95 percent confidence interval [CI], 1.2 to 2.5) and stable or increased intake of carbohydrates (HR, 2.0; 95 percent CI, 1.3 to 5.0). Among women with primary breast cancer that was IGFI receptor-positive, carbohydrate intake increased the risk of recurrence more than five-fold (HR, 5.5; 95 percent CI, 1.8 to 16.3). Among women with primary breast cancer that was IGFI receptor-negative, carbohydrate intake had no significant effect on the risk of recurrence.

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