Breast Cancer: How to Reduce Your Risk

PhysiciansCommittee



1. Choose Plant-Based Foods

Healthy foods from plants (vegetables, fruits, whole grains, and beans) can lower your breast cancer risk in several ways. They are often low in calories and high in fiber. This helps you feel full and lose weight if needed. High-fiber, low-fat diets can also help reduce estrogen levels.¹⁻⁴ Lower estrogen levels can lower your risk of breast cancer.⁵

A recent study showed that eating less fat and more fruits, vegetables, and grains could help protect breast cancer survivors, too.6

Packed with nutrition, plant-based diets can also reduce the risk of other diseases, like diabetes and heart disease. For the best nutrition, eat a variety of plant foods each day. Be sure to include a good source of vitamin B12, too, such as a supplement. Keep salt intake low, but when you do use salt, choose the iodized kind.

Fill up on veggies.

Not only are they healthy, but some have cancer-fighting nutrients.⁷ Try adding broccoli, collard greens, or cabbage to meals.

Eat more soy.

Tofu, soy milk, and edamame may help protect against breast cancer. Studies show that women who eat more soy have a lower risk of breast cancer.^{8,9} Soy foods may help protect women who've already had breast cancer, too.^{10,11}

Avoid processed meats.

Hot dogs, bacon, sausage, and lunch meats have been linked to a higher risk of breast cancer.^{12,13,14} Swap in healthy plant-based protein like beans, tofu, or nuts instead.



Exercise Regularly

Being active lowers the risk of breast cancer.¹⁵ Why? It can help with weight loss. Exercise might also make it harder for tumors to grow and even boost your immune system.¹⁶

If you aren't active, start slow and build up exercise over time. Brisk walking for 10-15 minutes three times per week is a good start. You can then add five minutes until you reach 30-40 minutes. When you feel ready, you can add other activities you like. (Note: Please talk to your doctor before beginning an exercise program.)



Limit Alcohol

Drinking alcohol raises breast cancer risk.¹⁷ Alcohol can increase estrogen levels,^{18,19} and it can cause DNA damage—the first step in cancer.¹⁹ The less you drink, the lower your risk.¹⁵





Maintain a Healthy Weight

Excess body weight increases the odds of getting breast cancer after menopause.^{20,21} Being overweight can also make existing cancer more likely to grow.²² One reason seems to be that fat cells make extra estrogens—female hormones that can help some breast cancer cells form and spread.²³ Being overweight also raises the risk of other health issues, like high blood pressure.

What's a healthy weight for you? It depends on your height. To find out if you're in the healthy range, you can check your body mass index (BMI).

Find your BMI by entering your height and weight in the BMI calculator at

PinkLotus.com/PowerUp/Resources/BMICalculator.





Geraldene's Story

In 1994, Geraldene Wallace got heart-stopping news: She had breast cancer.

After getting surgery to remove the lump, she ate plant-based for the next 15 years to reduce the risk of a recurrence. But then she started slipping back into old habits, like eating meat and dairy, and she developed diabetes. A few years later, in 2018, Geraldene was again diagnosed with breast cancer: grade 3, triple-negative, and aggressive. Shortly after her new breast cancer diagnosis, she was hospitalized for diabetes complications. Right there in the hospital, with help from her daughter Jackilyn, Geraldene got back on a healthy vegan diet. Not long after, she had a mastectomy, and just two months later she traveled to Barbados and completed a 5K walk. Now healthy and strong at age 79, Geraldene is off her insulin and has walked several more 5K races.



References

- Rose DP, Goldman M, Connolly JM, Strong LE. High-fiber diet reduces serum estrogen concentrations in premenopausal women. *Am J Clin Nutr.* 1991;54:520-525.
- Goldin BR, Woods MN, Spiegelman DL, et al. The effect of dietary fat and fiber on serum estrogen concentrations in premenopausal women under controlled dietary conditions. *Cancer.* 1994;74(3 Suppl):1125-1131.
- Bagga D, Ashley JM, Geffrey SP, et al. Effects of a very low fat, high fiber diet on serum hormones and menstrual function. Implications for breast cancer prevention. *Cancer*. 1995;76(12):2491-2496.
- Farvid MS, Cho E, Chen WY, Eliassen AH, Willett WC. Premenopausal dietary fat in relation to pre- and post-menopausal breast cancer. *Breast Cancer Res Treat*. 2014;145:255-265.
- Bhardwaj P, Au CC, Benito-Martin A, et al. Estrogens and breast cancer: mechanisms involved in obesity-related development, growth and progression. J Steroid Biochem *Mol Biol.* 2019;189:161-170. doi:10.1016/j. jsbmb.2019.03.002
- Chlebowski RT, Aragaki AK, Anderson GL, et al. Dietary modification and breast cancer mortality: long-term follow-up of the Women's Health Initiative Randomized Trial. J Clin Oncol. 2020;38(13):1419-1428.
- Masala G, Assedi M, Bendinelli B, et al. Fruit and vegetables consumption and breast cancer risk: the EPIC Italy study. *Breast Cancer Res Treat.* 2012;132(3):1127-1136.
- Xie Q, Chen ML, Qin Y, et al. Isoflavone consumption and risk of breast cancer: a dose-response meta-analysis of observational studies. *Asia Pac J Clin Nutr.* 2013;22(1):118-127.
- Chen M, Rao Y, Zheng Y, et al. Association between soy isoflavone intake and breast cancer risk for pre- and post-menopausal women: a meta-analysis of epidemiological studies. *PLoS ONE*. 2014;9(2):e89288.
- Zhang FF, Haslam DE, Terry MB, et al. Dietary isoflavone intake and all-cause mortality in breast cancer survivors: the Breast Cancer Family Registry. Cancer. 2017;123(11):2070-2079. doi:10.1002/cncr.30615.
- Chi F, Wu R, Zeng YC, Xing R, Liu Y, Xu ZG. Post-diagnosis soy food intake and breast cancer survival: a meta-analysis of cohort studies. *Asian Pac J Cancer Prev.* 2013;14(4):2407-2412.
- Farvid MS, Cho E, Chen WY, Eliassen AH, Willett WC. Dietary protein sources in early adulthood and breast cancer incidence: prospective cohort study. *BMJ*. 2014;348:g3437.

- Farvid MS, Stern MC, Norat T, et al. Consumption of red and processed meat and breast cancer incidence: a systematic review and meta-analysis of prospective studies. *Int J Cancer.* 2018;143(11):2787-2799.
- Inoue-Choi M, Sinha R, Gierach GL, Ward MH. Red and processed meat, nitrite, and heme iron intakes and postmenopausal breast cancer risk in the NIH-AARP Diet and Health Study. *Int J Cancer.* 2016;138:1609-1618.
- 15. World Cancer Research Fund/American Institute for Cancer Research. Continuous Update Project Expert Report 2018. Diet, Nutrition, Physical Activity and Breast Cancer. Available at dietandcancerreport.org.
- Meneses-Echávez JF, Correa-Bautista JE, Gonzalez-Jimenez E, et al. The effect of exercise training on mediators of inflammation in breast cancer survivors: a systematic review with meta-analysis. *Cancer Epidemiol, Biomarkers Prev.* 2016;25(7):1009-1017.
- Chen WY, Rosner B, Hankinson SE, Colditz GA, Willett WC. Moderate alcohol consumption during adult life, drinking patterns, and breast cancer risk. JAMA. 2011;306(17):1884-1890.
- Hirko KA, Spiegelman D, Willett WC, Hankinson SE, Eliassen AH. Alcohol consumption in relation to plasma sex hormones, prolactin, and sex hormone-binding globulin in premenopausal women. *Cancer Epidemiol Biomarkers Prev.* 2014;23(12):2943-2953.
- Singletary KW, Gapstur SM. Alcohol and breast cancer: review of epidemiologic and experimental evidence and potential mechanisms. *JAMA*. 2001;286:2143-2151.
- 20. Chlebowski RT, Luo J, Anderson GL, et al. Weight loss and breast cancer incidence in postmenopausal women. *Cancer.* 2019;125(2):205-212.
- Zhang X, Eliassen AH, Tamimi RM, et al. Adult body size and physical activity in relation to risk of breast cancer according to tumor androgen receptor status. *Cancer Epidemiol Biomarkers Prev.* 2015;24(6):962-968.
- 22. Rock CL, Demark-Wahnefried W. Nutrition and survival after the diagnosis of breast cancer: a review of the evidence. *J Clin Oncol.* 2002;20:3302-3316.
- 23. Kendall A, Folkerd EJ, Dowsett M. Influences on circulating oestrogens in postmenopausal women: relationship with breast cancer. *J Steroid Biochem Molecular Biology*. 2007;103(2):99-109.





5100 Wisconsin Ave., NW, Suite 400 | Washington, DC 20016 202-686-2210 | info@pcrm.org | PhysiciansCommittee.org