

BSCS Advanced Breast Cancer Risk Calculator Homepage Text

The Breast Cancer Surveillance Consortium (BCSC) Advanced Breast Cancer Risk Calculator was developed and cross validated in 931,186 women undergoing mammography across the United States, among whom 1870 were diagnosed with advanced breast cancer. Advanced breast cancer is defined as American Joint Committee on Cancer, 8th edition prognostic pathologic stage II or higher. The BCSC Advanced Breast Cancer Risk Calculator is an interactive tool designed by scientists that participate in the BCSC to estimate a woman's six-year risk of developing advanced breast cancer based on whether they undergo mammography annually (every year) or biennially (every two years).

The BCSC Advanced Breast Cancer Risk Calculator was designed for use by health professionals. If you are not a health professional, you are encouraged to discuss the results and your personal risk of advanced breast cancer with your health care provider.

The calculator is NOT applicable to women that meet any of the following criteria:

- Younger than age 40 or older than age 74
- Previous diagnosis of invasive breast cancer
- Previous diagnosis of ductal carcinoma in situ (DCIS)
- Previous mastectomy

More specific methods of estimating risk are appropriate for women known to have breast cancer-producing mutations in the BRCA1 or BRCA2 genes. For more information, please visit: <http://bcb.dfci.harvard.edu/bayesmendel/brcapro.php>

Six-year cumulative risk calculations are based on seven factors:

- Age
- Race and ethnicity
- Family history of breast cancer in a first-degree relative (mother, sister, or daughter)
- History of a breast biopsy (core biopsy, excisional biopsy, or fine-needle aspiration) with benign breast disease diagnoses if known
- BI-RADS® breast density (radiologic assessment of the density of breast tissue by a radiologist who interprets mammograms)
- Body mass index (weight and height)
- Menopausal status (premenopausal or postmenopausal)
- Screening interval (one year or two years)

The BCSC Advanced Breast Cancer Risk Calculator may be updated as new data or research becomes

available. Current version 1.0.

References for model development.

Kerlikowske K, Chen S, Golmakani MK, Sprague BL, Tice JA, Tosteson ANA, Rauscher GH, Henderson LM, Buist DSM, Lee JM, Gard CC, Miglioretti DL. Development of a cumulative advanced breast cancer risk prediction model in a screening mammography population. *J Natl Cancer Inst* 2022, <https://doi.org/10.1093/jnci/djac008>

Kerlikowske K, Bissell M, Sprague BL, Buist DSM, Henderson LM, Lee JM, Miglioretti DL. Advanced breast cancer definitions by staging system examined in the Breast Cancer Surveillance Consortium. *J Natl Cancer Inst* 2021;113(7):909–916.