

Breast Cancer Treatment Guidelines

These guidelines are based on the Breast Cancer Treatment (PDQ®)—Health Professional Version by the National Cancer Institute (PDQ® Adult Treatment Editorial Board, 2025).

Surgical treatment for breast cancer

Operable breast cancer requires a multimodal approach to treatment. After the presence of a malignancy is confirmed by biopsy, the following surgical treatment options can be discussed with the patient before a therapeutic procedure is selected:

- Breast-conserving surgery.
- Modified radical mastectomy (removal of the entire breast with axillary dissection of levels I and II) with or without breast reconstruction.

To guide the selection of neoadjuvant or adjuvant therapy, many factors including stage, grade, and molecular status of the tumor (e.g., estrogen receptor [ER], progesterone receptor [PR], human epidermal growth factor type 2 receptor [HER2], or triple-negative status) are considered.

Surgical staging of the primary tumor

Selection of a local therapeutic approach depends on the following factors:

- Location and size of the lesion.
- Analysis of the mammogram and/or magnetic resonance imaging or additional imaging.
- Breast size.
- Patient's desire to preserve the breast.

Options for surgical management of the primary tumor include:

- **Breast-conserving surgery (with consideration of radiation therapy).** All histological types of invasive breast cancer may be treated with breast-conserving surgery plus radiation therapy. However, the presence of inflammatory breast cancer, regardless of histological subtype, is a contraindication to breast-conserving therapy. The presence of multifocal disease in the breast and a history of collagen vascular disease are relative contraindications to breast-conserving therapy. Prior radiation to the breast was previously considered a contraindication to breast-conserving surgery. However, research has increasingly shown that repeat radiation therapy may be feasible and safe in select patient populations.
- **Mastectomy with or without breast reconstruction.**

Survival is equivalent with any of these options, as documented in the EORTC-10801 trial and other prospective randomized trials. Also, a retrospective study of 753 patients who were divided into three groups based on hormone receptor status (ER positive or PR positive; ER negative and PR negative but HER2 positive; and triple negative) found no differences in disease control within the breast in patients treated with standard breast-conserving surgery; however, there are not yet substantive data to support this finding.

The rate of local recurrence in the breast after conservative treatment is low and varies slightly with the surgical technique used (e.g., lumpectomy, quadrantectomy, segmental mastectomy, and others). Whether completely clear microscopic margins are necessary has been debated. However, a multidisciplinary consensus panel recently used margin width and ipsilateral breast tumor recurrence

Alternative Cancer Treatment Guidelines

Jicheng Xie



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