

# Advanced breast cancer: diagnosis and treatment

Clinical guideline

Published: 23 February 2009

Last updated: 30 June 2026

[www.nice.org.uk/guidance/cg81](https://www.nice.org.uk/guidance/cg81)

## Your responsibility

The recommendations in this guideline represent the view of NICE, arrived at after careful consideration of the evidence available. When exercising their judgement, professionals and practitioners are expected to take this guideline fully into account, alongside the individual needs, preferences and values of their patients or the people using their service. It is not mandatory to apply the recommendations, and the guideline does not override the responsibility to make decisions appropriate to the circumstances of the individual, in consultation with them and their families and carers or guardian.

All problems (adverse events) related to a medicine or medical device used for treatment or in a procedure should be reported to the Medicines and Healthcare products Regulatory Agency using the [Yellow Card Scheme](#).

Local commissioners and providers of healthcare have a responsibility to enable the guideline to be applied when individual professionals and people using services wish to use it. They should do so in the context of local and national priorities for funding and developing services, and in light of their duties to have due regard to the need to eliminate unlawful discrimination, to advance equality of opportunity and to reduce health inequalities. Nothing in this guideline should be interpreted in a way that would be inconsistent with complying with those duties.

Commissioners and providers have a responsibility to promote an environmentally sustainable health and care system and should [assess and reduce the environmental impact of implementing NICE recommendations](#) wherever possible.

# Contents

Overview .....	5
Who is it for? .....	5
Using this guideline .....	6
Providing information and supportive care, and data collection to improve care .....	7
1.1 General principles.....	7
1.2 Research, audit and quality improvement.....	8
Diagnosis and assessment .....	11
1.3 Imaging assessment .....	11
1.4 Pathological assessment and genetic testing.....	15
1.5 Monitoring disease status .....	15
Systemic anticancer therapy.....	18
1.6 Choosing systemic anticancer therapy.....	18
1.7 Treatments by receptor subtype .....	19
1.8 Treatments not recommended.....	28
Managing treatment side effects and menopausal symptoms.....	29
1.9 Lymphoedema .....	29
1.10 Cancer-related fatigue .....	29
1.11 Menopausal symptoms .....	29
Managing uncontrolled local disease and metastases.....	30
1.12 Uncontrolled local disease .....	30
1.13 Metastases .....	30
1.14 Palliative and end of life care.....	31
Terms used in this guideline.....	33
Advanced breast cancer .....	33
Recommendations for research .....	34
1 Imaging modalities to detect distant metastases in people with lobular breast cancer with suspected metastatic disease .....	34

2 Platinums for people with germline BRCA1 or BRCA2/2 pathogenic variants.....	34
3 Uncontrolled local disease.....	35
Finding more information and committee details.....	37
Update information .....	38

This guideline replaces TA30, TA54 and TA62.

This guideline is partially replaced by NG101.

This guideline is the basis of QS12.

## Overview

This guideline covers care and support for people with advanced (unresectable or metastatic) breast cancer. It aims to help them and their healthcare professionals make shared decisions about tests and treatments to improve outcomes and quality of life.

## Who is it for?

- Healthcare professionals
- Commissioners and providers of breast cancer services
- Palliative care services
- People with advanced breast cancer, their families and carers

## Using this guideline

People have the right to be involved in discussions and make informed decisions about their care, as described in [NICE's information about shared decision making](#).

Healthcare professionals should follow our general guidelines for people delivering care:

- [Decision making and mental capacity](#)
- [Medicines adherence](#)
- [Medicines optimisation](#)
- [Multimorbidity](#)
- [Patient experience in adult NHS services](#)
- [People's experience in adult social care services](#)
- [Service user experience in adult mental health](#)
- [Shared decision making](#)

[Making decisions using NICE guidelines](#) explains how we use words to show the strength (or certainty) of our recommendations, and has information about prescribing medicines (including off-label use), professional guidelines, standards and laws (including on consent and mental capacity), and safeguarding.

# Providing information and supportive care, and data collection to improve care

## 1.1 General principles

- 1.1.1 Commissioners and healthcare professionals involved in the care of patients with advanced breast cancer should provide assessment and discussion of patients' needs for physical, psychological, social, spiritual and financial support to be undertaken at key points (such as diagnosis; at commencement, during, and at the end of treatment; at relapse and when death is approaching). **[2009, amended 2026]**
- 1.1.2 Ensure all people with breast cancer have a named clinical nurse specialist, or other specialist key worker with equivalent skills, to support them throughout the whole care pathway. **[2026]**
- 1.1.3 For information about identifying, treating and managing depression in people aged 18 and over who also have a chronic physical health problem such as cancer, see the recommendations in the [NICE guideline on depression in adults with a chronic physical health problem](#). **[2026]**

### Why the committee made the 2026 recommendations

The cancer service guidance that underpinned the version of the current recommendation 1.1.1 that appeared in previous releases of this guideline has been retired, but the committee felt that the points were still valid and opted to retain the recommendation with minor updates. They also noted that a related recommendation about having a clinical nurse specialist from the [NICE guideline on early and locally advanced breast cancer](#) also applies to people with advanced breast cancer, so agreed it should be reproduced here with minor edits to reflect differences in management pathways between the stages of breast cancer.

The committee recognised the increased risk of depression in people with advanced breast cancer and so included a cross reference to the [NICE guideline on depression in adults with a chronic physical health problem](#).

Full details of the evidence and the committee's discussion are in [evidence review B: FDG PET-CT and contrast-enhanced CT for diagnosing and monitoring distant metastases](#).

### How the recommendations might affect practice

The recommendations reflect current good practice, but may help standardise it where localised variations occur.

## 1.2 Research, audit and quality improvement

- 1.2.1 Throughout the treatment pathway, discuss opportunities for people with advanced breast cancer to be involved in research, at their treatment centre or others, including the benefits and risks of participating in research. **[2026]**
- 1.2.2 Commissioners should ensure that:
- people with advanced breast cancer are accurately coded in the digital records to support audit, research and quality improvement.

- data is collected to support national audits. **[2026]**

#### Why the committee made these recommendations

The committee agreed that it is important that people with advanced breast cancer have opportunities to be involved in research to help improve the evidence base underlying which treatments are clinically effective. These opportunities should be made available whenever appropriate and not only after standard treatment lines are exhausted. The opportunities should not be limited to their centre, but taking part in research in other centres may involve travelling further or more frequently, and practical issues such as this should be discussed with the person. There may also be non-clinical studies, for example looking at their views and experiences of treatment.

The committee noted that advanced breast cancer is not coded consistently in current practice, and that this can make it hard to estimate incidence and prevalence. They agreed that accurately recording which people have advanced disease and the treatments they receive will help with forward planning of resource allocations, and support research and improvements in the quality of care. The committee were aware of the [National Audit of Metastatic Breast Cancer \(NAoMe\)](#), and agreed that it is important to support the data collection for this and future national audits to improve practice. They made a consensus recommendation to address this.

Full details of the evidence and the committee's discussion are in [evidence review A: platinum-containing chemotherapy regimens](#) and [evidence review B: FDG PET-CT and contrast-enhanced CT for diagnosing and monitoring distant metastases](#).

### How the recommendations might affect practice

The recommendation on involving people with breast cancer in research reflects current good practice, but may help standardise it where localised variations occur.

There is variation in how advanced breast cancer is currently coded in digital records and this recommendation may help to standardise practice. The collection of data to support national audits reflects current good practice, but this recommendation may help to standardise practice where coding varies and audit data is not currently reliably collected.

# Diagnosis and assessment

## 1.3 Imaging assessment

- 1.3.1 To assess the presence and extent of distant metastases for diagnosis and staging, use contrast-enhanced computed tomography (CECT) of the chest, abdomen and pelvis (from the supraclavicular fossae to the proximal femurs), or FDG PET-CT.

See also the [NICE HealthTech guidance on point-of-care creatinine devices to assess kidney function before CT imaging with intravenous contrast](#). Also see the recommendations in the NICE guideline on acute kidney cancer on [assessing risk factors in adults having iodine-based contrast media](#) and [preventing acute kidney injury in adults having iodine-based contrast media](#). **[2026]**

- 1.3.2 When deciding between CECT or FDG PET-CT, or interpreting potential imaging results, take into account:
- that FDG PET-CT may have higher sensitivity than CECT
  - the performance of the scanning modality for the specific clinical indication
  - that some breast cancers, including some invasive lobular breast cancers and some cancers of low grade, may show lower levels of FDG uptake
  - the availability of scanning modalities and whether this could delay diagnosis and treatment
  - the person's preferences. **[2026]**
- 1.3.3 If there is uncertainty about the presence and extent of distant metastases after CECT or FDG PET-CT that can be resolved by additional imaging, or further characterisation is needed, use 1 or more of the following depending on which is deemed most appropriate to answer the clinical question:
- FDG PET-CT, if CECT was used previously

- CECT, if FDG PET-CT was used previously
- MRI
- ultrasound
- bone scintigraphy
- plain radiography. **[2026]**

1.3.4 For recommendations about the diagnosis of brain metastases see [section 1.6 on investigation of suspected brain metastases in the NICE guideline on brain tumours \(primary\) and brain metastases in over 16s.](#) **[2026]**

1.3.5 For recommendations about the diagnosis of spinal metastases see [section 1.3 on recognising spinal metastases or MSCC](#) and [section 1.5 on imaging investigations in the NICE guideline on spinal metastases and metastatic spinal cord compression.](#) **[2026]**

### Why the committee made these recommendations

The committee considered the evidence and their own experience on FDG PET-CT and contrast-enhanced CT (CECT) and agreed that both imaging methods can be suitable for detecting distant metastases in most people with suspected advanced breast cancer (including people with and without a previous diagnosis of breast cancer). Moderate to very low certainty evidence suggested that both FDG PET-CT and CECT have high specificity, meaning they are reliable for ruling in distant metastases. FDG PET-CT may also have high sensitivity, with fewer missed cases of distant metastases, while CECT may have slightly lower sensitivity, potentially missing more cases. The committee discussed the importance of clinical judgement in deciding between FDG PET-CT and CECT, including about whether the possible additional sensitivity of FDG PET-CT is likely to be useful, or whether CECT is likely to be sufficient.

The committee noted that, in practice, the same type of scan is usually used for diagnosis and monitoring. Health economic modelling results suggested that FDG PET-CT, while more expensive than CECT, was cost effective when used for both diagnosis and monitoring because of this higher level of diagnostic accuracy. Although the tracer used for an FDG PET-CT involves radiation, radiation exposure was considered similar for both tests, and the committee acknowledged ongoing efforts to reduce dose levels.

The committee noted that CECT is currently the most commonly used imaging test for diagnosing distant breast cancer metastases and is widely available. FDG PET-CT is not available in all areas, making it less easily accessible for many people. While the committee agreed people should not be denied the opportunity to access FDG PET-CT imaging, they recognised it may not be suitable for all as someone may not wish to, or be able to, travel to other centres to access it. In addition, there may not currently be capacity in the system (based on the availability of machines and radiologists to interpret the scans) for large numbers of people to access FDG PET-CT without increasing their waiting time, and in doing so potentially delaying diagnosis. For these reasons, the committee agreed that either CECT of the chest, abdomen and pelvis or FDG PET-CT can be used to diagnose the presence and extent of distant metastases.

The committee were aware that FDG PET-CT may be unsuitable or less useful for detecting metastases of certain types of breast cancer. Lobular breast cancer can be more difficult to detect on imaging than other types of breast cancer, and some lobular or low-grade breast cancers may not take up the tracer used in FDG PET-CT very well, making scans harder to interpret. The committee noted that information about grade and cancer type may not always be available before scans to diagnose distant metastases, and clinical judgement is needed when deciding whether to offer additional imaging, and what type of imaging that should be.

There was a small amount of evidence about the diagnostic accuracy of FDG PET-CT for people with lobular breast cancer, which showed the diagnostic accuracy was poor compared to those for people with non-lobular breast cancer. Despite the lack of diagnostic accuracy evidence for CECT for people with lobular breast cancer, the committee agreed that, in their experience, the accuracy is likely to be similar to FDG PET-CT. Because of the lack of evidence, the committee made a recommendation for research to investigate imaging modalities for diagnosing distant metastases in this group.

Alternate imaging options from the previous version of the guideline were retained and listed to address situations where there is uncertainty after the initial imaging or where further characterisation is needed (for example, to look for bone metastases using bone scintigraphy or to assess the risk of bone fractures).

The committee were aware of detailed guidance relating to the diagnosis of brain metastases and spinal cord metastases in other NICE guidance, and included cross references to this content.

Full details of the evidence and the committee's discussion are in evidence review B: FDG PET-CT and contrast-enhanced CT for diagnosing and monitoring distant metastases.

#### How the recommendations might affect practice

The recommendations may increase demand for the use of FDG PET-CT for diagnosing distant breast cancer metastases. In places where FDG PET-CT imaging is already available, the recommendations are likely to increase its use. In other areas the recommendations may lead to the introduction of FDG PET-CT for this indication, but would depend on increasing the availability of PET-CT machines and radiologists who are able to interpret the scans.

## 1.4 Pathological assessment and genetic testing

- 1.4.1 For people whose breast cancer has recurred, consider reassessing their hormone receptor (HR) and human epidermal growth factor receptor 2 (HER2) status if a change in receptor status will lead to a change in management. **[2017, amended 2026]**
- 1.4.2 For guidance on genomic testing to guide treatment, see the [National Genomics Test Directory](#) (NGTD). See also the [NICE guideline on familial breast cancer](#). **[2026]**

## 1.5 Monitoring disease status

- 1.5.1 Use a scanning modality (CECT or FDG PET-CT) that is effective at showing response to treatment for monitoring. **[2026]**
- 1.5.2 Consider using the same scanning modality (CECT or FDG PET-CT) as used for initial staging of metastatic disease. **[2026]**
- 1.5.3 Do not use bone scintigraphy to monitor the response of bone metastases to treatment. **[2009]**

### Why the committee made the 2026 recommendations

There was no direct evidence on the effects of using CECT or FDG PET-CT to monitor disease status in people with advanced breast cancer. However, based on their experience, the committee agreed that these scans are likely to perform similarly for monitoring as they do for diagnosing distant metastases. They therefore considered the evidence on diagnosing distant metastases, as well as their own experience and the results of the economic model, when making these recommendations.

The economic model showed that, regardless of whether CECT or FDG PET-CT was used for diagnostic imaging, using FDG PET-CT for monitoring would be the most cost-effective modality. However, there was significant uncertainty around this result given the lack of identified evidence for diagnostic test accuracy in monitoring and its impact on treatment choices and health outcomes. Consequently, the committee opted against recommending one imaging modality in preference to the other for monitoring.

Based on their experience, the committee noted that using the same type of scan for both diagnosis and monitoring helps clinicians interpret changes more accurately and make clearer decisions about treatment. Differences in scan type could make it harder to tell whether any changes are from treatment, or just differences in imaging. However, they agreed that clinical judgement should be used to decide on imaging modality for monitoring based on what specific clinical question is being asked of the scan: for example, whether the clinician is aiming to identify changes to specific areas only, and how clearly these areas were visible on earlier imaging.

Full details of the evidence and the committee's discussion are in [evidence review B: FDG PET-CT and contrast-enhanced CT for diagnosing and monitoring distant metastases](#).

### How the recommendations might affect practice

The recommendations reflect current practice in many centres, although there may be some variation. Where there is an increase in use of FDG PET-CT for diagnosing distant metastases in people with breast cancer, this may also mean an increase in its use for monitoring disease status in future. Implementing this may require increasing the availability of PET-CT machines and radiologists who are able to interpret the scans in areas where this is not currently used to monitor advanced breast cancer.

# Systemic anticancer therapy

## 1.6 Choosing systemic anticancer therapy

See also the [visual summary of systemic anticancer therapy options](#) and [recommendation 1.2.1 in the section on general principles](#).

1.6.1 Base the decision about whether to use systemic anticancer therapy (SACT), and the choice of SACT if indicated, on factors such as:

- the person's preferences, fitness and existing comorbidities
- the characteristics of the cancer
- the person's response to, and any side effects from, previous lines of therapy
- the clinical benefits and potential side effects of any suitable SACT regimens, and how they are delivered (for example, oral or intravenous), scheduled, and fit into current treatment pathways
- NHS funding and commissioning criteria (see the [NHS England Cancer Drugs Fund list](#))
- the availability of relevant clinical trials (for example, from [Be Part of Research](#) and [ISCRN: The UK's clinical study registry](#)). **[2026]**

### Why the committee made this recommendation

The committee reviewed evidence about platinum-based chemotherapy regimens for people with triple-negative advanced breast cancer, and discussed what factors affect the choice of regimen for this group. They agreed that the factors discussed applied to all receptor subtype groups and types of SACT.

The committee agreed that the decision about which SACT regimen to use was nuanced and depended on the person's preferences and clinical judgement, taking into account many factors. For example, the characteristics of the cancer would include tumour characteristics such as receptor subtypes and genetic characteristics such as having germline BRCA1 or BRCA2 pathogenic variants. The committee also agreed that choice of regimen would depend on the previous tumour response, the person's fitness and what side effects they had experienced with any previous lines of SACT. They noted that the choice of a particular treatment could affect future treatment options, but that treatment pathways are constantly changing as new drugs become available and funding arrangements change.

Full details of the evidence and the committee's discussion are in [evidence review A: platinum-containing chemotherapy regimens](#).

### How the recommendation might affect practice

The recommendation reflects current good practice, but may help standardise it where localised variations occur.

## 1.7 Treatments by receptor subtype

### Triple-negative advanced breast cancer

- 1.7.1 Pembrolizumab with paclitaxel or nab-paclitaxel is recommended as an option for untreated, triple-negative, advanced breast cancer with a PD-L1 combined positive score of 10 or more and an immune cell staining of less than 1%. For full

details, see [NICE's technology appraisal guidance on pembrolizumab plus chemotherapy \(TA801, 2022\)](#).

- 1.7.2 Atezolizumab with nab-paclitaxel is recommended as an option for untreated, triple-negative, advanced breast cancer with a PD-L1 expression at a level of 1% or more. For full details, see [NICE's technology appraisal guidance on atezolizumab with nab-paclitaxel \(TA639, 2020\)](#).
- 1.7.3 Sacituzumab govitecan is recommended as an option for treating triple-negative, advanced breast cancer after 2 or more systemic therapies. For full details, see [NICE's technology appraisal guidance on sacituzumab govitecan \(TA819, 2022\)](#).
- 1.7.4 For medicines recommended as options for treating HER2-negative, advanced breast cancer with germline BRCA1 or BRCA2 pathogenic variants after an anthracycline and a taxane, see NICE's technology appraisal guidance on:
- [olaparib \(TA1040, 2025\)](#)
  - [talazoparib \(TA952, 2024\)](#).

## Chemotherapy for people with triple-negative advanced breast cancer

- 1.7.5 If chemotherapy is indicated for people with triple-negative advanced breast cancer, offer systemic sequential chemotherapy. **[2009, amended 2026]**
- 1.7.6 When offering systemic sequential chemotherapy for triple-negative advanced breast cancer, options include (but are not limited to) the following (in no order of preference):
- anthracyclines
  - capecitabine
  - carboplatin
  - taxanes
  - vinorelbine. **[2026]**

Eribulin and gemcitabine with paclitaxel, are recommended as chemotherapy options for treating advanced breast cancer. For full details, see NICE's technology appraisal guidance on:

- [eribulin \(TA423, 2016\)](#) after at least 2 chemotherapy regimens
- [gemcitabine with paclitaxel \(TA116, 2007\)](#).

1.7.7 Consider using combination chemotherapy to treat patients with advanced breast cancer for whom a greater probability of response is important and who understand and are likely to tolerate the additional toxicity. **[2009]**

### Why the committee made the 2026 recommendation

Evidence suggested that chemotherapy regimens that contain platinum and those that do not may have similar impacts on overall survival and progression-free survival in people with triple-negative advanced breast cancer.

The committee highlighted that the evidence suggested an increased risk of some side effects (for example, neutropenia, and nausea or vomiting) with chemotherapy regimens including platinum, compared with those without. However, the evidence was very uncertain due to the studies being at a high risk of bias, and there being a large variation in results between studies for some outcomes. It also included a variety of different comparator drugs, all of which have different side-effect profiles, but only side effects most commonly expected with platinum were reported in the studies. Because of this and the evidence for overall survival and progression-free survival, the committee agreed that they were unable to recommend using platinum-based chemotherapy over non-platinum chemotherapy for people with triple-negative breast cancer (TNBC). However, they noted that the choice of the type of chemotherapy or other SACT is a complex one that needs to be tailored to the individual and agreed that for some people with triple-negative advanced breast cancer platinum-based chemotherapy would be a suitable option.

The committee recognised that clinical practice has changed greatly over time and that a single sequence of chemotherapies for everyone with advanced breast cancer is no longer relevant. However, they noted that chemotherapies in the 2009 recommendation are still in use, and they agreed to add carboplatin to this list of potential options for TNBC. They agreed that the 2009 recommendation on offering systemic sequential chemotherapy also remained relevant.

The committee were unable to recommend a different chemotherapy regimen for people who have TNBC with, or without, germline BRCA1 or BRCA2 pathogenic variants because of the limited number of included trials and small number of participants in them. Therefore, they drafted a [recommendation for research on platinum-containing chemotherapy regimens](#) to try to fill these gaps in the evidence base.

Full details of the evidence and the committee's discussion are in [evidence review A:](#)

platinum-containing chemotherapy regimens.

How the recommendation might affect practice

The recommendation reflects current practice and is not expected to result in significant changes.

## HER2-positive advanced breast cancer

- 1.7.8 For medicines recommended as options for first-line treatment of HER2-positive advanced breast cancer in some people, see NICE's technology appraisal guidance on:
- pertuzumab with trastuzumab and docetaxel (TA509, 2018)
  - trastuzumab with paclitaxel (TA34, 2002).
- 1.7.9 Trastuzumab deruxtecan is recommended as an option for treating HER2-positive advanced breast cancer after 1 or more anti-HER2 treatments, with managed access through the Cancer Drugs Fund. For full details, see NICE's technology appraisal guidance on trastuzumab deruxtecan (TA862, 2023).
- 1.7.10 Trastuzumab emtansine is recommended as an option for treating HER2-positive, advanced breast cancer that has previously received trastuzumab and a taxane, separately or in combination. For full details, see NICE's technology appraisal guidance on trastuzumab emtansine (TA458, 2017).
- 1.7.11 Trastuzumab monotherapy is recommended as an option for treating HER2-positive, advanced breast cancer that has received at least 2 chemotherapy regimens. For full details, see NICE's technology appraisal guidance on trastuzumab (TA34, 2002).
- 1.7.12 For medicines recommended as options for treating HER2-positive, advanced breast cancer after 2 or more anti-HER2 therapies, see NICE's technology

appraisal guidance on:

- [tucatinib with trastuzumab and capecitabine \(TA786, 2022\)](#)
- [trastuzumab deruxtecan \(TA704, 2021\)](#) through the Cancer Drugs Fund.

## Chemotherapy for people with HER2-positive advanced breast cancer

- 1.7.13 If chemotherapy is indicated for people with HER2-positive advanced breast cancer, offer systemic sequential chemotherapy. **[2009, amended 2026]**
- 1.7.14 When offering systemic sequential chemotherapy for HER2-positive advanced breast cancer, options include (but are not limited to) the following (in no order of preference):
- anthracyclines
  - capecitabine
  - taxanes
  - vinorelbine. **[2026]**
- Eribulin, and gemcitabine with paclitaxel, are recommended as chemotherapy options for treating advanced breast cancer. For full details, see NICE's technology appraisal guidance on:
- [eribulin \(TA423, 2016\)](#) after at least 2 chemotherapy regimens.
  - [gemcitabine with paclitaxel \(TA116, 2007\)](#).
- 1.7.15 Consider using combination chemotherapy to treat patients with advanced breast cancer for whom a greater probability of response is important and who understand and are likely to tolerate the additional toxicity. **[2009]**

### Why the committee made the 2026 recommendation

The committee used the same process for updating the chemotherapy recommendations for people with HER2-positive advanced breast cancer as was used with triple-negative breast cancer (TNBC), based on the same rationale. However, platinum chemotherapy was excluded as the effectiveness of this was not reviewed as part of this update for people who did not have TNBC.

### How the recommendation might affect practice

The recommendation reflects current practice and is not expected to result in significant changes.

## Hormone-receptor-positive, HER2-negative advanced breast cancer

1.7.16 For medicines recommended as options for first-line endocrine treatment of hormone receptor-positive, HER2-negative, advanced breast cancer in some people, see NICE's technology appraisal guidance on:

- [abemaciclib with an aromatase inhibitor \(TA563, 2019\)](#)
- [ribociclib with an aromatase inhibitor \(TA496, December 2017\)](#)
- [palbociclib with an aromatase inhibitor \(TA495, December 2017\)](#).

1.7.17 For medicines recommended as options for treating hormone receptor-positive, HER2-negative, advanced breast cancer after previous endocrine treatment in some people, see NICE's technology appraisal guidance on:

- [palbociclib with fulvestrant \(TA836, 2022\)](#)
- [abemaciclib with fulvestrant \(TA725, September 2021\)](#)
- [ribociclib with fulvestrant \(TA687, March 2021\)](#)

- [everolimus with exemestane \(TA421, 2016\)](#).
- 1.7.18 Capiwasertib with fulvestrant is recommended as an option for treating hormone receptor-positive, HER2-negative advanced breast cancer with 1 or more PIK3CA, AKT1 or PTEN pathogenic variants that has progressed after a cyclin-dependent kinase (CDK) 4 and 6 inhibitor plus an aromatase inhibitor. For full details, see [NICE's technology appraisal guidance on capivasertib with fulvestrant \(TA1063, 2025\)](#).
- 1.7.19 Alpelisib with fulvestrant is recommended as an option for treating hormone receptor-positive, HER2-negative, advanced breast cancer with PIK3CA pathogenic variants that has progressed after a CDK4/6 inhibitor plus an aromatase inhibitor. For full details, see [NICE's technology appraisal guidance on alpelisib with fulvestrant \(TA816, 2022\)](#).
- 1.7.20 Elacestrant is recommended as an option for treating oestrogen receptor-positive, HER2-negative, advanced breast cancer with ESR1 pathogenic variants that has progressed after at least 1 line of endocrine treatment plus a CDK4/6 inhibitor. For full details, see [NICE's technology appraisal guidance on elacestrant \(TA1036, 2025\)](#).
- 1.7.21 For medicines recommended as options for treating HER2-negative, advanced breast cancer with germline BRCA1 or BRCA2 pathogenic variants after endocrine therapy or an anthracycline and a taxane, see NICE's technology appraisal guidance on:
- [olaparib \(TA1040, 2025\)](#)
  - [talazoparib \(TA952, 2024\)](#).

## **Chemotherapy for people with hormone-receptor-positive, HER2-negative advanced breast cancer**

- 1.7.22 If chemotherapy is indicated for people with hormone-receptor-positive, HER2-negative advanced breast cancer, offer systemic sequential chemotherapy. **[2009, amended 2026]**

1.7.23 When offering systemic sequential chemotherapy for hormone-receptor-positive, HER2-negative advanced breast cancer, options include (but are not limited to) the following (in no order of preference):

- anthracyclines
- capecitabine
- taxanes
- vinorelbine. **[2026]**

Eribulin, and gemcitabine with paclitaxel, are recommended as chemotherapy options for treating advanced breast cancer. For full details, see NICE's technology appraisal guidance on:

- [eribulin \(TA423, 2016\)](#) after at least 2 chemotherapy regimens
- [gemcitabine with paclitaxel \(TA116, 2007\)](#).

1.7.24 Consider using combination chemotherapy to treat patients with advanced breast cancer for whom a greater probability of response is important and who understand and are likely to tolerate the additional toxicity. **[2009]**

#### Why the committee made the 2026 recommendation

The committee used the same process for updating the chemotherapy recommendations for people with hormone-receptor-positive, HER2-negative advanced breast cancer as was used with triple-negative breast cancer (TNBC), based on the same rationale. However, platinum chemotherapy was excluded as the effectiveness of this was not reviewed as part of this update for people who did not have TNBC.

Full details of the evidence and the committee's discussion are in [evidence review A: platinum-containing chemotherapy regimens](#).

How the recommendation might affect practice

The recommendation reflects current practice and is not expected to result in significant changes.

## Neurotrophic tyrosine receptor kinase (NTRK) fusion-positive solid tumours

- 1.7.25 Larotrectinib is recommended as an option through the Cancer Drugs Fund for treating locally advanced or metastatic NTRK fusion-positive solid tumours when there are no other satisfactory treatment options. For full details, see [NICE's technology appraisal guidance on larotrectinib \(TA630, May 2020\)](#).

## 1.8 Treatments not recommended

- 1.8.1 For medicines not recommended for treating advanced breast cancer, see NICE's technology appraisal guidance on:
- [trastuzumab deruxtecan \(TA992, 2024\)](#) for treating HER2-low advanced breast cancer
  - [eribulin \(TA515, March 2018\)](#) after only 1 chemotherapy regimen
  - [fulvestrant \(TA503, January 2018\)](#) for untreated oestrogen-receptor-positive breast cancer
  - [bevacizumab with capecitabine \(TA263, August 2012\)](#)
  - [lapatinib or trastuzumab with an aromatase inhibitor \(TA257, June 2012\)](#)
  - [fulvestrant \(TA239, December 2011\)](#) for oestrogen-receptor-positive breast cancer that has relapsed or progressed on or after anti-oestrogen therapy
  - [bevacizumab with a taxane \(TA214, February 2011\)](#).

# Managing treatment side effects and menopausal symptoms

## 1.9 Lymphoedema

Recommendations in this section have been stood down as they have been superseded by the February 2025 update on [lymphoedema early identification, risk reduction and management](#) in the [NICE guideline on early and locally advanced breast cancer: diagnosis and management](#).

## 1.10 Cancer-related fatigue

- 1.10.1 Offer all people with advanced breast cancer who have significant cancer-related fatigue an assessment to identify any treatable causative factors, and offer appropriate management as necessary. **[2009]**
- 1.10.2 Provide clear, written information about cancer-related fatigue, organisations that offer psychosocial support and patient led groups. **[2009]**
- 1.10.3 Give all people with advanced breast cancer who have cancer-related fatigue information about, and timely access to, a suitable exercise programme. **[2009]**

## 1.11 Menopausal symptoms

See the [section covering people with a personal history of breast cancer](#) in the [NICE guideline on menopause](#) and the section on [menopausal symptoms](#) in the [NICE guideline on early and locally advanced breast cancer](#).

# Managing uncontrolled local disease and metastases

## 1.12 Uncontrolled local disease

- 1.12.1 Ensure all people presenting with uncontrolled local disease have:
- their care needs assessed by a breast cancer multidisciplinary team, and
  - the therapeutic options for controlling the disease and relieving symptoms discussed by the team, and with the person. **[2009]**
- 1.12.2 Ensure people with ulcerated tumours are seen by a wound care team to:
- plan a dressing regimen with the person, and
  - supervise management with the breast care team. **[2009]**
- 1.12.3 Ensure all people with uncontrolled local disease are assessed by a palliative care team so they can:
- plan a symptom management strategy with the person, and
  - provide psychological support. **[2009]**

## 1.13 Metastases

### Bone metastases

- 1.13.1 Consider bisphosphonates for people newly diagnosed with bone metastases to prevent skeletal-related events and reduce pain. **[2009]**
- 1.13.2 Denosumab is recommended as an option for preventing skeletal-related events in adults with bone metastases from breast cancer only if bisphosphonates would

otherwise be prescribed. For full details, see the [NICE's technology appraisal guidance on denosumab \(TA265, 2012\)](#).

- 1.13.3 Use external beam radiotherapy in a single fraction of 8 Gy to treat people with bone metastases and pain. **[2009]**
- 1.13.4 Ensure people at risk of a long bone fracture have their disease assessed by an orthopaedic surgeon to see if prophylactic surgery is a suitable option. **[2009]**

## Spinal metastases

For recommendations about the management of spinal metastases, see the [NICE guideline on spinal metastases and metastatic spinal cord compression](#).

## Brain metastases

- 1.13.5 In the [NICE guideline on brain tumours \(primary\) and brain metastases in over 16s](#), see:
- [section 1.7 on the management of confirmed brain metastases](#)
  - [Section 1.8 on follow-up for brain metastases](#)
  - [Section 1.9 on the care needs of people with brain tumours](#)
  - [section 1.10 on neurorehabilitation needs of people with brain tumours](#)
  - [section 1.11 on surveillance for the late onset side effects of treatment](#).
- 1.13.6 Offer referral to specialist palliative care to people if active treatment for brain metastases would be inappropriate. **[2009]**

## 1.14 Palliative and end of life care

- 1.14.1 When providing palliative and end of life care to people with advanced breast cancer, follow the recommendations in [NICE's guidelines on end of life care for](#)

adults and care of dying adults in the last days of life.

# Terms used in this guideline

## Advanced breast cancer

This is made up of 2 groups: cancer that is locally advanced (stage 3) and unresectable (inoperable), and cancer that has spread from the original location to a new location (known as metastatic, secondary or stage 4 breast cancer).

# Recommendations for research

The 2009 and 2026 guideline committees made the following recommendations for research.

## 1 Imaging modalities to detect distant metastases in people with lobular breast cancer with suspected metastatic disease

In adults with lobular breast cancer and suspected metastatic disease, what is the diagnostic accuracy and cost effectiveness of different imaging modalities [such as whole-body MRI, fibroblast activation protein inhibitor (FAPI) PET-CT and 18F-fluoroestradiol (FES) PET-CT] for detecting distant metastases? [2026]

Why the committee made this recommendation

The evidence showed that FDG PET-CT had a poor diagnostic accuracy for people with lobular breast cancer. There was no evidence identified for CECT, but the committee agreed that, in their experience, the accuracy is likely to be similar to FDG PET-CT. Because of the limited evidence base and the poor diagnostic accuracy of these types of imaging, the committee made a recommendation for research to address this evidence gap.

Full details of the evidence and the committee's discussion are in [evidence review B: FDG PET-CT and contrast-enhanced CT for diagnosing and monitoring distant metastases](#).

## 2 Platinums for people with germline BRCA1 or BRCA2/2 pathogenic variants

What is the clinical and cost effectiveness of a platinum-containing chemotherapy regimen compared with a non-platinum-containing chemotherapy regimen in people with advanced

breast cancer who have germline BRCA1 or BRCA2 pathogenic variants? **[2026]**

Why the committee made this recommendation

There was some evidence of very low certainty for the effectiveness of platinum-based chemotherapy for people with advanced breast cancer who have germline BRCA1 or BRCA2 pathogenic variants, and this was limited to people who also had TNBC. As the committee were unable to recommend a different chemotherapy regimen for people who have TNBC with, or without, germline BRCA1 or BRCA2 pathogenic variants because of the limited number of included trials and small number of participants in them, they drafted a recommendation for research to try to address the lack of evidence in this area.

Full details of the evidence and the committee's discussion are in [evidence review A: platinum-containing chemotherapy regimens](#).

### 3 Uncontrolled local disease

The relevant research organisations should be encouraged to address the topic of uncontrolled local disease and devise appropriate research studies. This might include development of a national register.

For example, what are the best methods of controlling local disease in people with stable advanced breast cancer who have progressive recurrent local disease? **[2009, amended 2026]**

#### Why this is important

The problem of how best to manage uncontrolled local disease is very poorly addressed by the current evidence. Although it is probably quite an uncommon condition, it is likely that across the country there are enough people to generate evidence from well-coordinated national studies. A national register should be considered as part of this because of the current uncertainties about the frequency of the problem.

Understanding effectiveness of different interventions and the underlying biology of local recurrence could lead to better local treatments in both the primary and secondary

setting. **[2009, amended 2026]**

## Finding more information and committee details

To find NICE guidance on related topics, including guidance in development, see the [NICE topic page on breast cancer](#).

For full details of the evidence and the guideline committee's discussions, see the [evidence reviews and full guideline](#). You can also find information about [how the guideline was developed](#), including details of the committee.

NICE has produced [tools and resources to help you put this guideline into practice](#). For general help and advice on putting our guidelines into practice, see [resources to help you put NICE guidance into practice](#).

## Update information

**June 2026:** We reviewed the evidence and made new and updated recommendations and recommendations for research on providing information and supportive care, diagnosis and assessment, and systemic anticancer therapy. These recommendations are marked **[2026]**, **[2017, amended 2026]** and **[2009, amended 2026]**. We also added links to relevant technology appraisal guidance in the sections on diagnosis and assessment and systemic anticancer therapy. Some recommendations have been stood down as they no longer reflect current practice.

**February 2025:** Recommendations in the section on lymphoedema have been stood down as they have been superseded by the update on [lymphoedema early identification, risk reduction and management](#) in the [NICE guideline on early and locally advanced breast cancer: diagnosis and management](#).

**August 2017:** We reviewed the evidence and updated recommendations in section 1.1 on assessing oestrogen receptor (ER) and human epidermal growth factor receptor 2 (HER2) status on disease recurrence. These recommendations are marked **[2017]**.

ISBN: 978-1-4731-9587-5