



# Resource impact summary report

Resource impact

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## Guideline recommendations

See [NICE's recommendations on advanced breast cancer: diagnosis and treatment](#).

The following recommendations represent a change to current practice:

- Use of PET-CT as one of the primary imaging tools for staging and diagnosis [recommendations 1.2.1 to 1.2.3]

## Financial and capacity resource impact

The key drivers of resource impact are that PET-CT is not currently standard practice in the NHS for staging and diagnosis of advanced breast cancer and there are limited PET-CT machines which tend to be restricted to specialist centres. Current standard practice is for CT scans to be used.

Table 1 shows the difference in tariff price between PET-CT and CT scans.

**Table 1 Cost of PET-CT and CT scans**

<b>Tariff price for PET-CT (HRG RN05A Single Photon Emission Computed Tomography with Computed Tomography [SPECT-CT] of Two or Three Areas, 19 years and over)</b>	£259
<b>Tariff price of CT (HRG RD26Z Computerised Tomography Scan of Three Areas, with Contrast)</b>	£116
<b>Price difference</b>	£143
<b>Cost of performing 1,000 PET-CT scans instead of CT scans</b>	£143,000

The recommendations around systemic anti-cancer therapy and chemotherapy are in line with current practice and existing technology appraisal guidance.

We expect that the resource impact of this update is that PET-CT scans take longer to perform than CT scans, a PET-CT scan takes 30 to 45 minutes to perform while a CT scan takes between 10 and 20 minutes.

Table 2 shows the difference in time taken to perform a PET-CT scan compared to a CT scan.

**Table 2 Time taken to perform PET-CT and CT scans**

<b>Time taken to perform PET-CT scan (minutes)</b>	30 to 35
<b>Time taken to perform CT scan (minutes)</b>	10 to 20
<b>Minimum difference (minutes)</b>	10
<b>Maximum difference (minutes)</b>	35

<b>Average difference (minutes)</b>	17.5
<b>Time taken to perform additional 1,000 PET-CT scans instead of CT scans (hours)</b>	292

## Population covered

Table 3 below shows the number of people with advanced breast cancer each year both at a national level for England and per 100,000 population.

**Table 3 Incidence of advanced breast cancer in England**

<b>Details</b>	<b>Percentage (%)</b>	<b>Number of people in England</b>	<b>Number of people per 100,000</b>
Adults	N/A	47,106,459	79,227
Breast cancer diagnoses (a)	0.11	51,500	90
People with advanced breast cancer on diagnosis (b)	14.6	7,378	15
People with early breast cancer on diagnosis (c)	85.4 of (a)	43,157	75
People with early breast cancer who progress to advanced breast cancer in year (d)	30.0 of (c)	12,497	22
Total people with advanced breast cancer per year	N/A (b)+(d)	20,325	37

## Key information

Table 4 Key information

<b>Speciality</b>	Cancer
<b>Disease area</b>	Breast cancer
<b>Programme budgeting category</b>	02F Cancers and Tumours, Breast
<b>Commissioners</b>	Integrated Care Boards and NHS England
<b>Provider</b>	NHS Hospital trusts

## About this resource impact summary report

This resource impact summary report accompanies the [NICE guideline on advanced breast cancer: diagnosis and treatment](#) and should be read with it.