

# Tailoring treatment for HER2-positive early breast cancer

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<b>Registration date</b> 11/10/2021	<b>Overall study status</b> Ongoing	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 10/07/2025	<b>Condition category</b> Cancer	<input type="checkbox"/> Individual participant data <input checked="" type="checkbox"/> Record updated in last year

## Plain English summary of protocol

<https://www.cancerresearchuk.org/about-cancer/find-a-clinical-trial/a-study-looking-at-personalised-treatment-for-early-her2-positive-breast-cancer-her2-radical>

### Background and study aims

Patients with the “HER2-positive” type of early breast cancer (HER2+ EBC) usually receive a course of drug treatment as well as surgery. This drug treatment improves chances of cure by destroying any breast cancer cells that might have already begun to spread. The aim is to reduce the burden of treatment and the risk of serious long-term side effects for some patients with HER2+ EBC. The researchers want to find out if they can adjust the amount of drug treatment given to patients after surgery according to the way the cancer initially responds to drug treatment before surgery.

### Who can participate?

Patients aged 16 years and over with HER2+ EBC treated with neoadjuvant chemotherapy, pertuzumab and trastuzumab, who have a pathological complete response (pCR) at surgery.

### What does the study involve?

Before entry into the study, a review of medical history and a pregnancy test (for all women who are able to get pregnant) will be conducted to determine if a patient is eligible to enter. Following study entry patients will continue to receive trastuzumab until a total of 9 cycles (about 6 months) of treatment have been given. This number of cycles includes the trastuzumab treatment received before entering the study. For patients who do not take part in the study it is likely that 17 or 18 cycles (about 1 year in total) of trastuzumab would be given. For some patients, the possibility of receiving pertuzumab and/or chemotherapy after surgery may have been discussed by their doctor, however, patients who have entered HER2-RADiCAL will not receive pertuzumab or any further chemotherapy after surgery. Patients will continue to receive trastuzumab in the same way that they would receive it if they were not taking part in the study. This may be as an injection under the skin or through a drip in the arm. During trastuzumab treatment the following assessments will be conducted. Before each cycle of trastuzumab the patient will have a discussion with their study doctor or nurse to document if there have been changes in their health since the last visit. Patients will continue to have their heart function measured with an echocardiogram (ECHO) or multiple gated acquisition (MUGA) scan in the

same way that would have happened if they were not taking part in the study. In many hospitals this will be done around 4 and 8 months after starting trastuzumab. Patients may receive other preventative treatments like hormone treatment, radiotherapy and bisphosphonates, just as they would if they were not taking part in this study. The study research team will request a sample of tumour tissue collected at the time of initial diagnosis and a copy of the pathology report. They will also ask for tissue samples (or images of tissue samples) collected at the time of surgery from about 100 study participants. These samples and images will be analysed by the research team to ensure that they agree with the diagnosis of pCR made by the hospital pathologist. About 30 days after the last cycle of trastuzumab, patients will have a discussion with their study doctor to document if there have been any changes in their health since the last visit. After treatment has finished, patients will have a mammogram and a follow up once a year for at least 5 years. The study research team also plan to collect routine information about the health of study participants, such as hospital admissions, information relating to their cancer, any treatments they might go on to receive and continued information about their overall health and wellbeing, from NHS databases.

What are the possible benefits and risks of participating?

By receiving a shorter duration of antibody treatment (trastuzumab and pertuzumab) and by not receiving adjuvant chemotherapy (if this had been discussed), patients may benefit from having fewer visits for treatment as well as a lower risk of short- and long-term side effects. Patients who take part in this study will be less likely to have some of these side effects because treatment is given for a shorter time.

By receiving less treatment patients may have a slightly increased risk of their cancer coming back. It is well known that patients who are suitable for this study have a high chance of remaining cancer-free with current treatment: about 96 in every 100 patients (96%) will remain free of cancer 3 years after diagnosis and about 94 in every 100 (94%) will remain cancer-free at 5 years from diagnosis. Based on previous research the study team think it is likely that carefully reducing treatment, as planned in this study, may not increase the risk of the cancer returning or may only increase the risk by a very small amount that could be balanced by the benefits of fewer side effects. However, this is not known for certain and this is why this research is being done. An independent group of scientists and doctors will closely monitor the progress and early results of the study to ensure that the continuation of the study remains safe and in the best interest of those patients volunteering to take part.

Where is the study run from?

The Institute of Cancer Research (ICR) (UK)

When is the study starting and how long is it expected to run for?

December 2019 to March 2032

Who is funding the study?

National Institute for Health Research – Health Technology Assessment (HTA) Programme (UK)

Who is the main contact?

Katie Goddard

her2radical-icrctsu@icr.ac.uk

### **Study website**

<https://www.icr.ac.uk/our-research/centres-and-collaborations/centres-at-the-icr/clinical-trials-and-statistics-unit/our-research/clinical-trials/her2-radical>

# Contact information

## Type(s)

Scientific

## Contact name

Dr Katie Goddard

## Contact details

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# Additional identifiers

## EudraCT/CTIS number

2021-001240-10

## IRAS number

292122

## ClinicalTrials.gov number

Nil known

## Secondary identifying numbers

CPMS 50425, IRAS 292122

# Study information

## Scientific Title

The HER2-RADiCAL study (Response ADaptive CAre pLan) – tailoring treatment for HER2 positive early breast cancer

## Acronym

HER2-RADiCAL

## Study objectives

HER2-RADiCAL seeks to test the hypothesis that a pathological complete response (pCR) to preoperative chemotherapy and anti-HER2 drug therapy can be used as a functional response biomarker to select patients who can safely receive less intensive personalised therapy, with minimal or no loss of efficacy in the population.

## Ethics approval required

Old ethics approval format

### **Ethics approval(s)**

Approved 20/08/2021, London - South East Research Ethics Committee (Barlow House, 3rd Floor, 4 Minshull Street, Manchester, M1 3DZ, UK; +44 (0)207 104 8085; londonsoutheast.rec@hra.nhs.uk), REC ref: 21/LO/0529

### **Study design**

Interventional non-randomized study

### **Primary study design**

Interventional

### **Secondary study design**

Non randomised study

### **Study setting(s)**

Hospital

### **Study type(s)**

Treatment

### **Participant information sheet**

Not available in web format, please use the contact details to request a participant information sheet

### **Health condition(s) or problem(s) studied**

HER2-positive early breast cancer

### **Interventions**

Current interventions as of 21/12/2023:

Patients taking part in the study will continue treatment with trastuzumab until 9 cycles have been completed (rather than 18 cycles), including those cycles administered prior to study entry. No more pertuzumab will be given after study registration, and patients will not receive chemotherapy after surgery. Some patients may not receive a type of chemotherapy called an anthracycline if this was being deferred to after surgery. Any other treatment that might have been recommended (like hormone therapy or radiotherapy) will be given as normal.

Trastuzumab (original or biosimilar) should be given every 3 weeks to complete a total of 9 cycles including those cycles administered prior to study entry; the number of cycles given within the HER2-RADiCAL study is altered according to the number of cycles received prior to study entry. Trastuzumab may be administered via IV or subcutaneous routes in accordance with the standard practice at the site and will be administered as per the SmPC and local guidelines. Subcutaneous trastuzumab is administered at a dose of 600 mg every 3 weeks. Intravenous trastuzumab is administered at a dose of 6 mg/kg body weight every 3 weeks (with a loading dose of 8 mg/kg if required). No dose reductions are permitted.

Previous interventions:

Patients taking part in the study will continue treatment with trastuzumab until 9 cycles have been completed (rather than 18 cycles), including those cycles administered prior to study entry. No more pertuzumab will be given after study registration, and patients will not receive a type

of chemotherapy called an anthracycline, or any other type of chemotherapy, after surgery. Any other treatment that might have been recommended (like hormone therapy or radiotherapy) will be given as normal.

Trastuzumab (original or biosimilar) should be given every 3 weeks to complete a total of 9 cycles including those cycles administered prior to study entry; the number of cycles given within the HER2-RADiCAL study is reduced according to the number of cycles received prior to study entry. Trastuzumab may be administered via IV or subcutaneous routes in accordance with the standard practice at the site and will be administered as per the SmPC and local guidelines. Subcutaneous trastuzumab is administered at a dose of 600 mg every 3 weeks. Intravenous trastuzumab is administered at a dose of 6 mg/kg body weight every 3 weeks (with a loading dose of 8 mg/kg if required). No dose reductions are permitted.

## **Intervention Type**

Drug

## **Phase**

Not Applicable

## **Drug/device/biological/vaccine name(s)**

Trastuzumab

## **Primary outcome measure**

Relapse-free-interval (RFI), defined as time from registration to invasive local or distant relapse or death from breast cancer in the absence of a previously identified relapse (intercurrent deaths and second primary cancers censored). The primary timepoint of interest will be 3 years.

## **Secondary outcome measures**

Efficacy:

1. Relapse-free-survival (RFS) defined as time from registration to invasive local or distant relapse or death from any cause (second primary cancers censored)
2. Invasive breast cancer-free survival (iBCFS) defined as time from registration to invasive local or distant relapse or ipsilateral or contralateral invasive second primary breast cancer (non-breast second primary cancers censored) or death from any cause
3. Invasive disease-free survival (iDFS) defined as time from registration to invasive local or distant recurrence, new invasive second cancer or death from any cause
4. Distant recurrence-free interval (DRFI) defined as time from registration to distant recurrence or death from any cause (second primary cancers and intercurrent deaths censored)
5. Breast cancer-free interval (BCFI) defined as time from registration to invasive local or distant relapse, or ipsilateral or contralateral invasive second primary breast cancer or DCIS or death from breast cancer in the absence of a previously identified relapse (intercurrent deaths and second primary cancers censored)
6. Overall survival defined as time from registration to death from any cause

Other:

1. Treatment pathway adherence: non-adherence is defined as the proportion of patients who receive >9 cycles of trastuzumab or who receive further adjuvant systemic anti-HER2 treatment (e.g. pertuzumab) or chemotherapy prior to recurrence or second primary
2. Cost-effectiveness: quality-adjusted life-years derived from a health economic model developed using clinical trial and real-world data at 3 and 5 years after study entry

**Overall study start date**

09/12/2019

**Completion date**

28/03/2032

## Eligibility

**Key inclusion criteria**

Current inclusion criteria as of 21/12/2023:

1. Female or male, age  $\geq 16$  years
2. Histologically confirmed invasive breast cancer that is HER2-positive (IHC3+, and/or ISH positive/amplified) as determined by the local laboratory in accordance with national guidelines
3. Has received neoSACT chemotherapy with concomitant trastuzumab and pertuzumab
4. pCR (ypT0/is ypN0) in breast and sampled regional lymph nodes as per local pathology reporting
5. Imaging of breast and axilla prior to initiation of neoSACT and either:
  - 5.1. Breast primary radiological measurement  $\leq 20$  mm prior to neoSACT and limited nodal involvement (cN1) confirmed by axillary core biopsy or FNA (cT1N1)
- OR
- 5.2. Breast primary radiological measurement  $> 20$  mm but  $\leq 50$  mm and node-negative (cT2N0) or limited nodal involvement (cT2N1)
6. Multiple ipsilateral cancers are permitted provided at least one meets the tumour size and axillary node inclusion criteria and none meet any of the exclusion criteria
7. Bilateral cancers are permitted provided at least one meets the tumour size and axillary node inclusion criteria and none meet any of the exclusion criteria
8. Pre-treatment diagnostic breast tumour biopsy sample available
9. Patient must be fit to continue treatment with trastuzumab and have no concomitant medical, psychiatric or social problems that might interfere with informed consent, adherence to the reduced treatment pathway or follow-up
10. Provision of written informed consent to participate in HER2-RADiCAL

Previous inclusion criteria:

1. Female or male, age  $\geq 16$  years
2. Histologically confirmed invasive breast cancer that is HER2-positive (IHC3+, and/or ISH positive/amplified) as determined by the local laboratory in accordance with national guidelines
3. Has received neoSACT with a non-anthracycline chemotherapy regimen with at least 3 cycles of concomitant trastuzumab and pertuzumab
4. pCR (ypT0/is ypN0) in breast and sampled regional lymph nodes as per local pathology reporting
5. Imaging of breast and axilla prior to initiation of neoSACT and either:
  - 5.1. Breast primary radiological measurement  $\leq 20$  mm prior to neoSACT and limited nodal involvement (cN1) confirmed by axillary core biopsy or FNA (cT1N1)
- OR
- 5.2. Breast primary radiological measurement  $> 20$  mm but  $\leq 50$  mm and node-negative (cT2N0) or limited nodal involvement (cT2N1)
6. Multiple ipsilateral cancers are permitted provided at least one meets the tumour size and axillary node inclusion criteria and none meet any of the exclusion criteria
7. Bilateral cancers are permitted provided at least one meets the tumour size and axillary node inclusion criteria and none meet any of the exclusion criteria
8. Pre-treatment diagnostic breast tumour biopsy sample available

9. Study consent  $\leq 6$  weeks after completing breast cancer surgery
10. Patient must be fit to continue treatment with trastuzumab and have no concomitant medical, psychiatric or social problems that might interfere with informed consent, adherence to the reduced treatment pathway or follow-up
11. Provision of written informed consent to participate in HER2-RADiCAL

**Participant type(s)**

Patient

**Age group**

Adult

**Lower age limit**

16 Years

**Sex**

Both

**Target number of participants**

Planned Sample Size: 720; UK Sample Size: 720

**Key exclusion criteria**

Current exclusion criteria as of 21/12/2023:

1. Evidence of metastatic disease at any time since diagnosis
2. Any residual invasive disease following neoSACT. This includes isolated tumour cells in axillary nodes or tissue or evidence of lymphovascular invasion in the breast. Persistent ductal or lobular non-invasive disease (DCIS or LCIS) is permitted. Resection margins must be deemed clear of any residual DCIS according to local MDT protocol
3. Breast-conserving primary surgery where it is known that breast irradiation will not be administered (e.g. due to contraindication or patient preference)
4. Intraoperative assessment of post-neoSACT axillary SLN using one-stop nucleic acid amplification (OSNA)
5. Any planned further resectional surgery for breast cancer (including re-excision, mastectomy, or axillary surgery)
6. HER2-negative invasive breast carcinoma
7. Breast cancer with clinical stage of  $T \geq 3$  at diagnosis
8. Evidence of scarring (or other pathological features consistent with previous malignant involvement) in  $>4$  axillary nodes or clinical nodal stage  $N \geq 2$  at any time
9. Positive SLNB pre-neoadjuvant systemic therapy as this precludes determination of pCR
10. Pregnant and/or lactating women
11. Female patient of child-bearing potential, unwilling to use an effective form of contraception during trastuzumab treatment and for 7 months after their last dose of trastuzumab
12. Previous diagnosis of invasive breast carcinoma
13. Previous diagnosis of any other (non-breast) malignancy unless disease-free for at least 5 years and considered to be at low risk of recurrence or treated basal cell or localised squamous cell carcinoma of the skin or cervical intraepithelial neoplasia
14. Chemotherapy administered following surgery (NB. Pertuzumab and/or trastuzumab may have been continued after surgery as per local practice prior to study entry)
15. Has received  $>9$  cycles trastuzumab. In the event a patient has received 9 cycles prior to study entry then consent must occur within 3 weeks of the last dose of trastuzumab.
16. Clinically significant cardiac disease within 12 months of starting trastuzumab, including

unstable angina, acute myocardial infarction, New York Heart Association Class III or IV congestive heart failure, cerebral vascular accident, or cardiac arrhythmia associated with haemodynamic instability

17. Left ventricular ejection fraction (LVEF) less than 50% on most recent cardiac imaging

18. History of interstitial lung disease

19. Any medical or other contra-indication to continuing trastuzumab

Previous exclusion criteria:

1. Evidence of metastatic disease at any time since diagnosis

2. Any residual invasive disease following neoSACT. This includes isolated tumour cells in axillary nodes or tissue or evidence of lymphovascular invasion in the breast. Persistent ductal or lobular non-invasive disease (DCIS or LCIS) is permitted. Resection margins must be deemed clear of any residual DCIS according to local MDT protocol

3. Any planned further resectional surgery for breast cancer (including re-excision, mastectomy, or axillary surgery)

4. HER2-negative invasive breast carcinoma

5. Breast cancer with clinical stage of T $\geq$ 3 at diagnosis

6. Evidence of scarring (or other pathological features consistent with previous malignant involvement) in >4 axillary nodes or clinical nodal stage N $\geq$ 2 at any time

7. Positive SLNB pre-neoadjuvant systemic therapy as this precludes determination of pCR

8. Pregnant and/or lactating women

9. Female patient of child-bearing potential, unwilling to use an effective form of contraception during trastuzumab treatment and for 7 months after their last dose of trastuzumab

10. Previous diagnosis of invasive breast carcinoma

11. Previous diagnosis of any other (non-breast) malignancy unless disease-free for at least 5 years and considered to be at low risk of recurrence or treated basal cell or localised squamous cell carcinoma of the skin or cervical intraepithelial neoplasia

12. Chemotherapy administered following surgery (NB. Pertuzumab and/or trastuzumab may have been continued after surgery as per local practice prior to study entry)

13. Has received >9 cycles trastuzumab

14. Any medical or other contra-indication to continuing trastuzumab

**Date of first enrolment**

03/12/2021

**Date of final enrolment**

30/11/2027

## **Locations**

**Countries of recruitment**

England

Northern Ireland

Scotland

United Kingdom

Wales

**Study participating centre**  
**Gartnavel Royal Hospital**  
1055 Great Western Road  
Glasgow  
United Kingdom  
G12 0XH

**Study participating centre**  
**NHS Lothian**  
Waverley Gate  
2-4 Waterloo Place  
Edinburgh  
United Kingdom  
EH1 3EG

**Study participating centre**  
**Belfast City Hospital**  
Lisburn Road  
Belfast  
United Kingdom  
BT9 7AB

**Study participating centre**  
**Royal Sussex County Hospital**  
Eastern Road  
Brighton  
United Kingdom  
BN2 5BE

**Study participating centre**  
**The Maidstone Hospital**  
Hermitage Lane  
Maidstone  
United Kingdom  
ME16 9QQ

**Study participating centre**  
**Royal Free Hospital**  
Pond Street  
London

United Kingdom  
NW3 2QG

**Study participating centre**  
**Queens Medical Centre**  
Derby Road  
Nottingham  
United Kingdom  
NG7 2UH

**Study participating centre**  
**Yeovil District Hospital**  
Higher Kingston  
Yeovil  
United Kingdom  
BA21 4AT

**Study participating centre**  
**Colchester Dist General Hospital**  
Turner Road  
Colchester  
United Kingdom  
CO4 5JL

**Study participating centre**  
**Ysbyty Gwynedd**  
Penrhosgarnedd  
Bangor  
United Kingdom  
LL57 2PW

**Study participating centre**  
**NHS Forth Valley**  
33 Spittal Street  
Stirling  
United Kingdom  
FK8 1DX

**Study participating centre**

**Royal Cornwall Hospital**

Treliske

Truro

United Kingdom

TR1 3LJ

**Study participating centre**

**Poole Hospital**

Longfleet Road

Poole

United Kingdom

BH15 2JB

**Study participating centre**

**Kent & Canterbury Hospital**

Ethelbert Road

Canterbury

United Kingdom

CT1 3NG

**Study participating centre**

**St Thomas' Hospital**

Westminster Bridge Road

London

United Kingdom

SE1 7EH

**Study participating centre**

**Christie Hospital**

550 Wilmslow Road

Withington

Manchester

United Kingdom

M20 4BX

**Study participating centre**

**Medway Maritime Hospital**

Windmill Road

Gillingham

United Kingdom

ME7 5NY

**Study participating centre**

**NHS Borders**

Newstead

Melrose

United Kingdom

TD6 9DB

**Study participating centre**

**Queen Elizabeth Hospital**

Gayton Road

King's Lynn

United Kingdom

PE30 4ET

**Study participating centre**

**St Mary's Hospital**

South Wharf Road

London

United Kingdom

W2 1BL

**Study participating centre**

**Worcestershire Royal Hospital**

Charles Hastings Way

Worcester

United Kingdom

WR5 1DD

**Study participating centre**

**Northern General Hospital**

Herries Road

Sheffield

United Kingdom

S5 7AU

**Study participating centre**

**Beatson West of Scotland Cancer Centre**

1053 Great Western Road

Glasgow  
United Kingdom  
G12 0YN

**Study participating centre**  
**Royal Bournemouth Hospital**  
Castle Lane East  
Bournemouth  
United Kingdom  
BH7 7DW

**Study participating centre**  
**William Harvey Hospital**  
Kennington Road  
Willesborough  
Ashford  
United Kingdom  
TN24 0LZ

**Study participating centre**  
**Queen Elizabeth the Queen Mother Hospital**  
St. Peters Road  
Margate  
United Kingdom  
CT9 4AN

**Study participating centre**  
**Nottingham City Hospital**  
Hucknall Road  
Nottingham  
United Kingdom  
NG5 1PB

**Study participating centre**  
**Charing Cross Hospital**  
Fulham Palace Road  
London  
United Kingdom  
W6 8RF

**Study participating centre**  
**Bristol Haematology and Oncology Center**  
22 Horfield Rd  
Bristol  
United Kingdom  
BS2 8ED

**Study participating centre**  
**Peterborough City Hospital**  
Edith Cavell Campus  
Bretton Gate  
Bretton  
Peterborough  
United Kingdom  
PE3 9GZ

**Study participating centre**  
**Dumfries & Galloway Royal Infirmary**  
Cargenbridge  
Dumfries  
Dumfries and Galloway  
United Kingdom  
DG2 8RX

**Study participating centre**  
**Royal Lancaster Infirmary**  
Ashton Road  
Lancaster  
United Kingdom  
LA1 4RP

**Study participating centre**  
**Westmorland General Hospital**  
Burton Rd  
Kendal  
United Kingdom  
LA9 7RG

**Study participating centre**

**Furness General Hospital**

Dalton Lane  
Barrow-in-furness  
United Kingdom  
LA14 4LF

**Study participating centre****Clatterbridge Cancer Centre**

65 Pembroke PLACE  
Liverpool  
United Kingdom  
L7 8YA

**Study participating centre****St Mary's Hospital**

St. Marys Hospital  
Parkhurst Road  
Newport  
United Kingdom  
PO30 5TG

**Study participating centre****Glan Clwd Hospital**

Ysbyty Glan Clwydd  
Bodelwyddan  
Rhyl  
United Kingdom  
LL18 5UJ

**Study participating centre****Wrexham Maelor Hospital**

Croesnewydd Road  
Wrexham Technology Park  
Wrexham  
United Kingdom  
LL13 7TD

**Study participating centre****Weston Park Hospital**

Whitham Rd  
Broomhall

Sheffield  
United Kingdom  
S10 2SJ

**Study participating centre**  
**Aberdeen Royal Infirmary**  
Foresterhill Road  
Aberdeen  
United Kingdom  
AB25 2ZN

**Study participating centre**  
**West Middlesex University Hospital**  
Twickenham Road  
Isleworth  
United Kingdom  
TW7 6AF

**Study participating centre**  
**Weston General Hospital**  
Grange Road  
Uphill  
Weston-super-mare  
United Kingdom  
BS23 4TQ

**Study participating centre**  
**Uclh**  
250 Euston Road  
London  
United Kingdom  
NW1 2PQ

**Study participating centre**  
**Royal Devon and Exeter Hospital**  
Royal Devon & Exeter Hospital  
Barrack Road  
Exeter  
United Kingdom  
EX2 5DW

**Study participating centre****Maidstone**

Maidstone Hospital  
Hermitage Lane  
Maidstone  
United Kingdom  
ME16 9QQ

**Study participating centre****Northampton General Hospital**

Cliftonville  
Northampton  
United Kingdom  
NN1 5BD

## **Sponsor information**

**Organisation**

Institute of Cancer Research

**Sponsor details**

15 Cotswold Road  
London  
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SM2 5NG  
+44 (0)20872253604161  
Barbara.Pittam@icr.ac.uk

**Sponsor type**

Research organisation

**ROR**

<https://ror.org/043jzw605>

## **Funder(s)**

**Funder type**

Government

## Funder Name

NIHR Evaluation, Trials and Studies Co-ordinating Centre (NETSCC); Grant Codes: .

# Results and Publications

## Publication and dissemination plan

1. The study protocol is available online at <https://fundingawards.nihr.ac.uk/award/NIHR131362>
2. The main study results will be published in a peer-reviewed journal, on behalf of all collaborators. The manuscript will be prepared by a writing group, consisting of members of the Trial Management Group. Participating clinicians may be selected to join the writing group on the basis of intellectual and time input. All participating clinicians will be acknowledged in the publication. Additional documents are not available at this time.

## Intention to publish date

30/11/2030

## Individual participant data (IPD) sharing plan

The datasets generated and/or analysed during the current study will be available on request from the HER2-RADiCAL trial team via [her2radical-icrctsu@icr.ac.uk](mailto:her2radical-icrctsu@icr.ac.uk) via completion of a data access request form after such time that the primary analysis publication and any other key analyses have been completed. Optional advanced consent/authorisation for the possible future sharing of information collected about patients will be obtained at study entry.

## IPD sharing plan summary

Available on request

## Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Protocol file</a>	version 2.0	11/10/2021	16/05/2022	No	No
<a href="#">HRA research summary</a>			28/06/2023	No	No
<a href="#">Protocol file</a>	version 4.0	24/02/2023	21/12/2023	No	No