

# PRIMROSE Tissue: collection and analysis of samples in breast cancer

<b>Submission date</b> 12/02/2021	<b>Recruitment status</b> No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
<b>Registration date</b> 21/05/2021	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 21/05/2021	<b>Condition category</b> Cancer	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

Background and study aims

Breast cancer is the most common type of cancer in the UK.

PRIMROSE Tissue Study aims to collect and investigate archived tissue, excess CSF samples and related data (all collected as part of standard care) from patients with central nervous system disease secondary to breast cancer. This study does not involve additional procedures or interventions outside of standard care.

Who can participate?

Patients aged 16 years or above, with breast cancer

What does the study involve?

Patients will be informed of the study and consented to participate in PRIMROSE Tissue.

Following consent, arrangements will be made to request available archived FFPE tissue blocks of primary breast cancer tissue, non-cranial metastatic tissue or cranial metastatic tissue if available.

CSF samples will be collected only if the patient has been scheduled to undergo a CSF collection procedure as part of their standard care. In this case, an excess 10ml of CSF will be collected for the PRIMROSE Tissue study. Prior to CSF collection, 10ml blood will be collected for the study (which would not otherwise be collected).

The study can be carried out by trained clinical staff members, at sites with the appropriate and relevant facilities and this study does not involve experimental treatment or placebo treatment.

What are the possible benefits and risks of participating?

None

Where is the study run from?

University of Liverpool (UK)

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

January 2021 to June 2025

Who is funding the study?

1. Daiichi-Sankyo (Japan)
2. Liverpool Experimental Cancer Medicine Centre (UK)

Who is the main contact?

## Contact information

### Type(s)

Scientific

### Contact name

Prof Carlo Palmieri

### ORCID ID

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### Contact details

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## Additional identifiers

### Clinical Trials Information System (CTIS)

Nil known

### Integrated Research Application System (IRAS)

287714

### ClinicalTrials.gov (NCT)

Nil known

### Protocol serial number

CPMS 47662, IRAS 287714

## Study information

### Scientific Title

Primrose tissue study: a collection and analysis of tissue and CSF samples from patients with CNS disease secondary to breast cancer

### Study objectives

PRIMROSE Tissue Study aims to collect and investigate archived tissue, excess CSF samples and related data (all collected as part of standard care) from patients with central nervous system disease secondary to breast cancer.

### **Ethics approval required**

Old ethics approval format

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

Approved 21/01/2021, North West – Greater Manchester (GM) East (3rd Floor, Barlow House, 4 Minshull Street, M1 3DZ, UK; +44 (0)207 104 8009; gmeast.rec@hra.nhs.uk), ref: 20/NW/0451

### **Study design**

Observational cohort study

### **Primary study design**

Observational

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

Diagnostic

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

Breast Cancer

### **Interventions**

Data and Tissue Collection After Enrolment

After written consent is given and after patient has been enrolled in the study the data should be entered into the database (from retrospective records sourced from medical records and patient medical notes). The research team at site should request available FFPE tissue blocks and send to the University of Liverpool GCP Laboratory according to the Laboratory Manual.

CSF Extraction Visit

This visit will only occur if the patient is undergoing a CSF extraction procedure as per standard care.

The following procedures will occur at this visit:

- Blood sample collection (1 x 10ml EDTA blood tube) – this should be collected immediately before the CSF extraction procedure
- Excess CSF sample extraction (1 x 10ml CSF tube and 1 x 3ml - 5ml CSF tube) – this should be carried out via Lumbar Puncture or Ommaya Reservoir aspiration or at standard care neurosurgery as per standard procedure (atraumatic needles should be used unless discussed with PI & CI). The CSF samples for the PRIMROSE Tissue study will be excess samples taken at the time of the standard care CSF extraction procedure.

Scan/Imaging Visit

This visit will only occur if the patient is booked in for a routine scan as part of their standard care pathway. The Scan/Imaging Visit eCRF should be completed.

Disease Progression Visit

If patient comes in for a routine visit and there are no changes in disease or treatment, then

there is no requirement to update eCRF.

In the event of patient disease progression, treatment changes or in the event of death, data and tissue will be collected as relevant.

#### **Participant Discontinuation/Withdrawal**

In consenting to the trial, participants agree to all trial activities including sample collection and data collection. Every effort should be made to facilitate the completion of these for every recruited participant. If it is not possible to complete these activities (or it is deemed inappropriate) the reasons why should be documented.

Patients may be withdrawn from the study for any of the following reasons:

- Patient (or their designated legal representative, where applicable) withdraws consent.
- Contraindications to collection procedures.
- Death
- Clinician-led
- Any change in the patient's condition which results in a contraindication to collection procedures or causes the patient to fall under the exclusion criteria.
- Any change in the patient's condition that justifies discontinuation of involvement in the clinician's opinion.

Data to be collected at the time of discontinuation includes date of discontinuation and reason for discontinuation.

If a patient wishes to withdraw, the value of existing samples should be explained, and permission sought to continue retaining and using these. Generally, samples will be retained unless it is specifically requested for them not to be.

Upon withdrawal, the LCTC and TMG should be informed in via eCRF and no further samples or data should be collected.

Permission will be sought to use all samples collected thus far in the case of withdrawal. However, patients have the right to request that any samples which have not yet already been used in research to be disposed of. If a patient explicitly states that this is their wish, then this will be recorded onto eCRF.

In some cases, it will be impossible to destroy the samples without affecting other samples as they will have been irreversibly linked to others (such as in cases of tissue microarrays being produced or plasma samples being pooled). In these cases, the sample itself will not be destroyed; however, information linking the sample to any patient identifiers will be destroyed, deleted or censored as appropriate to eliminate the link and make the sample unidentifiable.

#### **End of Study**

The end of the study is defined to be the date on which data for all participants is frozen and data entry privileges are withdrawn from the study database. The study may be closed prematurely by the Trial Steering Committee.

#### **Intervention Type**

Other

#### **Primary outcome(s)**

Clinical staff will be collecting information onto eCRFs (REDCap) at registration (1st or 2nd Visit), CSF Extraction Visit, Imaging/ Scan Visit, Disease Progression Visit:

1. Disease history and characteristics

2. Prior cancer therapy (top line)
3. Current anti-cancer treatment and concomitant medications Progression Details

**Key secondary outcome(s))**

There are no secondary outcome measures

**Completion date**

01/06/2025

## Eligibility

**Key inclusion criteria**

1. 16 years of age or above
2. Histologically and/or cytologically confirmed breast cancer with CNS involvement, as defined as having one or more of the following:
  - 2.1. Metastases to the brain parenchyma
  - 2.2. Metastases to the leptomeninges
  - 2.3. Paraneoplastic Neurological Disorders
3. FFPE of biopsied or resected primary breast cancer, non-CNS metastasis and/ or brain metastasis is available or will be available.
4. Informed consent

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

16 years

**Sex**

All

**Key exclusion criteria**

- 1.Unable to comply with study procedures or give informed consent

**Date of first enrolment**

01/06/2021

**Date of final enrolment**

01/06/2023

## Locations

**Countries of recruitment**

United Kingdom

England

Scotland

**Study participating centre**

**The Walton Centre NHS Foundation Trust**

Lower Lane

Liverpool

United Kingdom

L9 7LJ

**Study participating centre**

**Wolfson Wohl Cancer Research Centre**

Garscube Estate

Bearsden

United Kingdom

G61 1QH

**Study participating centre**

**Northern General Hospital**

Sheffield Teaching Hospitals NHS Foundation Trust

Herries Road

Sheffield

United Kingdom

S5 7AU

**Study participating centre**

**Southampton General Hospital**

University of Southampton and University Hospital Southampton NHS Foundation Trust

Tremona Road

Southampton

United Kingdom

SO16 6YD

**Study participating centre**

**Royal Liverpool University Hospital**

Royal Liverpool University Hospitals NHS Trust

Prescot Street

Liverpool

United Kingdom

L7 8XP

**Study participating centre**  
**St James's University Hospital**  
Leeds Teaching Hospitals NHS Trust  
Beckett Street  
Leeds  
United Kingdom  
LS9 7TF

## Sponsor information

**Organisation**  
University of Liverpool

**ROR**  
<https://ror.org/04xs57h96>

## Funder(s)

**Funder type**  
Industry

**Funder Name**  
Daiichi-Sankyo

**Alternative Name(s)**  
Daiichi Sankyo Company, Limited, Daiichi Sankyo Co., Ltd.

**Funding Body Type**  
Private sector organisation

**Funding Body Subtype**  
For-profit companies (industry)

**Location**  
Japan

**Funder Name**  
Liverpool Experimental Cancer Medicine Centre

# Results and Publications

## Individual participant data (IPD) sharing plan

The current data sharing plans for this study are unknown and will be available at a later date

## IPD sharing plan summary

Data sharing statement to be made available at a later date

## Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">HRA research summary</a>			28/06/2023	No	No
<a href="#">Participant information sheet</a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes
<a href="#">Protocol file</a>	version v2.0	20/10/2020	21/05/2021	No	No
<a href="#">Study website</a>	Study website	11/11/2025	11/11/2025	No	Yes