# A randomised double-blind placebo-controlled trial of Sub-Pectoral catheter bupivacaine Infusion for post-mastectomy pain

Submission date	Recruitment status	<ul><li>Prospectively registered</li></ul>
01/11/2007	No longer recruiting	Protocol
Registration date	Overall study status	Statistical analysis plan
03/04/2008	Completed	Results
Last Edited	Condition category	Individual participant data
	Signs and Symptoms	<ul><li>Record updated in last year</li></ul>

## Plain English summary of protocol

Not provided at time of registration

## Contact information

## Type(s)

Scientific

#### Contact name

Dr Gail Gillespie

#### Contact details

Royal Cornwall Hospital Trust Treliske Truro, Cornwall United Kingdom TR1 3LJ

## Additional identifiers

**Protocol serial number** N/A

# Study information

Scientific Title

**Acronym** 

## **Study objectives**

The primary common complications of mastectomy with axillary node clearance are postoperative pain and slow recovery of shoulder function.

Historically, mastectomy patients are managed on the wards with systemic opiates, either by intramuscular injection or using a Patient Controlled Analgesia (PCA) device. Problems commonly associated with this technique are inadequate pain control, post-operative nausea and vomiting, poor recovery of shoulder function and chronic pain.

We ask the question: can post-operative analgesia be improved in this patient group by the use of local anaesthetic infusion via a sub pectoral catheter?

This prospective, randomised double blind placebo-controlled study of patients undergoing mastectomy plus axillary sampling or clearance for breast cancer aims to investigate whether this technique confers any advantages over current practice.

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

Ethics approval will be submitted from the Cornwall NHS Hospitals Local Research and Ethics Committee. Pending as of 06/11/2007.

## Study design

A prospective, single-centre, double blind randomised placebo-controlled study

## Primary study design

Interventional

## Study type(s)

Treatment

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

Post-mastectomy pain

#### **Interventions**

Local anaesthetic bupivacaine infusion (initial bolus of 20 ml of 0.5% sterile bupivacaine) via a sub-pectoral catheter inserted intra-operatively versus saline control (initial bolus of 20 ml sterile saline 0.9%).

Thereafter continuous drug infusion will be 270 ml of either 0.25% bupivacaine or of 0.9% saline via an elastomeric infusion device delivering 5 ml/hr over 48 hours.

All study arms have same duration. Initial phase of study is for the first 10 days following surgery, the second phase is the follow-up at 6 and 12 months. Total duration will therefore be 12 months.

#### Intervention Type

Drug

#### Phase

**Not Specified** 

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

Bupivacaine

## Primary outcome(s)

Post-operative analgesia as assessed by:

- 1. Total morphine requirements at 24 and 48 hours
- 2. Pain scores at rest on first wakening using a Verbal Rating Scale
- 3. Pain scores at rest and on movement using a Visual Analogue Scale at 24 and 48 hours
- 4. Time from end of surgery to first analgesia
- 5. Subsequent oral analgesia (oromorph) requirements

## Key secondary outcome(s))

- 1. Pain scores at rest and on movement using a Visual Analogue Scale at 10 days, 6 months and 1 year
- 2. Shoulder function assessment using Oxford Shoulder Score and Shoulder Goniometry at 24 hours, 48 hours, 10 days and 6 months
- 3. Incidence and severity of nausea and vomiting
- 4. Requirement for post-operative anti-emetic
- 5. Surgical complications, e.g., seroma/infection
- 6. Patient satisfaction at 10 days
- 7. Analgesia requirements at 6 months
- 8. Requirement for re-operation due to complication
- 9. Duration of post-operative hospital stay

## Completion date

01/06/2009

# **Eligibility**

## Key inclusion criteria

Female patients over the age of 18 who are scheduled for elective single side mastectomy with axillary surgery at Royal Cornwall Hospital Trust will be recruited.

## Participant type(s)

Patient

## Healthy volunteers allowed

No

## Age group

Adult

## Lower age limit

18 years

#### Sex

**Female** 

#### Key exclusion criteria

- 1. Concurrent enrolment in any other study/trial
- 2. Pregnancy
- 3. Bilateral surgery
- 4. Primary reconstructive surgery
- 5. Known allergy or sensitivity to local anaesthetic agents, morphine, paracetamol or ondansetron
- 6. Chronic opioid or non-opioid analgesic use
- 7. Inability to give informed consent
- 8. Inability to understand or use a patient-controlled analgesia (PCA) device
- 9. Inability to understand or complete the visual analogue assessment tools

#### Date of first enrolment

01/01/2008

#### Date of final enrolment

01/06/2009

## Locations

#### Countries of recruitment

**United Kingdom** 

England

# Study participating centre Royal Cornwall Hospital Trust

Truro, Cornwall United Kingdom TR1 3LJ

# Sponsor information

#### Organisation

Royal Cornwall Hospital Trust (UK)

#### **ROR**

https://ror.org/026xdcm93

# Funder(s)

## Funder type

Government

#### **Funder Name**

Royal Cornwall Hospital Trust (UK) - NHS clinical trial using existing resources

# **Results and Publications**

Individual participant data (IPD) sharing plan

## IPD sharing plan summary

Not provided at time of registration

## **Study outputs**

Output type Details Date created Date added Peer reviewed? Patient-facing?

Participant information sheet
Participant information sheet
11/11/2025 11/11/2025 No Yes