# Effectiveness of Patient Controlled Epidural Analgesia (PCEA) compared with Continuous Epidural Infusion Analgesia (CEIA) in patients undergoing elective Large Bowel Resection

Submission date	Recruitment status No longer recruiting	<ul><li>Prospectively registered</li></ul>		
23/01/2004		☐ Protocol		
Registration date	Overall study status	Statistical analysis plan		
23/01/2004	Completed	[X] Results		
<b>Last Edited</b> 04/03/2010	Condition category Signs and Symptoms	[] Individual participant data		
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## Plain English summary of protocol

Not provided at time of registration

# **Contact information**

# Type(s)

Scientific

#### Contact name

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# Additional identifiers

EudraCT/CTIS number

**IRAS** number

# ClinicalTrials.gov number

# **Secondary identifying numbers** SEO130

# Study information

#### Scientific Title

## **Study objectives**

The purpose of this investigation is to determine whether analgesia provided by Patient Controlled Epidural Analgesia (PCEA) is more effective than Continuous Epidural Infusion Analgesia (CEIA) in patients undergoing major abdominal surgery.

This knowledge would allow acute pain services to plan either to provide PCEA as a routine service, or to confine their services to continuous infusion epidural analgesia.

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

Not provided at time of registration

## Study design

Randomised controlled trial

## Primary study design

Interventional

## Secondary study design

Randomised controlled trial

## Study setting(s)

Not specified

## Study type(s)

**Not Specified** 

## Participant information sheet

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

Symptoms and general pathology: Pain

#### **Interventions**

i. PCEA or ii. CEIA using Bupivacaine 0.125% with Fentanyl 4 µg/ml via a Graseby 9500 pump. Patients in both groups will receive a loading dose of bupivacaine 0.25% via the epidural catheter, which is then attached to the pump. For patients in the CEIA group (controls) the pump will be programmed to deliver a continuous infusion of 10 ml/hour but the patient demand

button will be disabled although it will still make a 'click noise' when pressed. For those in the PCEA arm, the pump will be programmed to deliver a continual dose of 8 ml/hour and a bolus dose of 3 ml on activation of the patient demand button, with a lockout interval of 20 min.

## Intervention Type

Other

#### Phase

**Not Specified** 

## Primary outcome measure

a. Pain scores: This will be recorded using the hospital standard system which has been adopted by Wessex Acute Pain Forum as part of the minimum data set. It is a simple numerical scale of 0-3. In addition a standard 10 cm Vas marked at either extreme is used. Data will be collected hourly for the first 4 hours and 4 hourly thereafter. Patient will be scored at rest and on movement.

b. Patient's perception on control: In order to incorporate the notion of control we will utilise a standardised questionnaire to measure 'beliefs about controlling pain'

c. Patient's overall satisfaction of their pain control: at 72 hours and on discharge (between days 7-10), patients will be asked to record their overall impression of their pain control

d. Side effects: All patients will be assessed for incidence of sedation, nausea and vomiting, and respiratory depression. Pruritus and urinary retention will be noted and treated accordingly.

e. Analgesia usage: Consumption of epidural drugs and requirement for rescue analgesia will be recorded for all patients

## Secondary outcome measures

Not provided at time of registration

# Overall study start date

01/10/2000

# Completion date

30/09/2003

# **Eligibility**

## Key inclusion criteria

Adult patients admitted to the Queen Alexandra Hospital for elective large bowel resection will be approached.

# Participant type(s)

Patient

## Age group

**Not Specified** 

#### Sex

**Not Specified** 

# Target number of participants

Not provided at time of registration

## Key exclusion criteria

Patients with contra-indication to epidural analgesia, poor co-ordination and hand arthritis.

## Date of first enrolment

01/10/2000

## Date of final enrolment

30/09/2003

# Locations

## Countries of recruitment

England

United Kingdom

## Study participating centre Anaesthetic Department

Portsmouth United Kingdom PO6 3LY

# Sponsor information

## Organisation

NHS R&D Regional Programme Register - Department of Health (UK)

## Sponsor details

The Department of Health Richmond House 79 Whitehall London United Kingdom SW1A 2NL +44 (0)20 7307 2622 dhmail@doh.gsi.org.uk

## Sponsor type

Government

#### Website

http://www.doh.gov.uk

# Funder(s)

# Funder type

Government

## Funder Name

NHS Executive South East (UK)

# **Results and Publications**

# Publication and dissemination plan

Not provided at time of registration

Intention to publish date

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?
Results article	results	01/03/2007		Yes	No