

To compare dose and concentration of local anaesthetics in regional anaesthesia

Submission date 02/03/2009	Recruitment status No longer recruiting	☒ Prospectively registered ☐ Protocol
Registration date 27/03/2009	Overall study status Completed	☐ Statistical analysis plan ☐ Results
Last Edited 14/06/2016	Condition category Signs and Symptoms	☐ Individual participant data ☐ Record updated in last year

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

Protocol serial number
N/A

Study information

Scientific Title
Comparison of dose and concentration of local anaesthetics in femoral sciatic block: a randomised controlled trial

Study objectives

Null hypothesis: There is no difference in volume and concentration of local anaesthetics used in the sciatic component of a femoral sciatic block as long as the total dose is constant.

Ethics approval required

Old ethics approval format

Ethics approval(s)

To be submitted to the North Wales (Central) Research Ethics Committee in March 2009 (ref: 09/WNo02/7) as of 02/03/2009.

Study design

Randomised controlled trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Analgesic in regional anaesthesia

Interventions

The 40 patients will be randomised into 2 groups:

The first group will be given 20 ml of levobupivacaine 0.25% with 20 ml of lidocaine 1% for each block.

The second group will be given 20 ml of levobupivacaine 0.25% with 20 ml of lidocaine 1% for the femoral block and 10 ml of levobupivacaine 0.5% with 10 ml of lidocaine 2% for the sciatic block.

To minimise operator factors, there will be three anaesthetists performing the anaesthesia. Intraoperatively, patients will be given 1 g paracetamol (intravenous).

Patients are observed postoperatively in high care and the usage of PCA morphine as well as side effects will be monitored closely. Patients are only given paracetamol 1 g four times a day (qds) in the first 24 hours as well as the morphine PCA.

Intervention Type

Drug

Phase

Not Applicable

Drug/device/biological/vaccine name(s)

Levobupivacaine, lidocaine

Primary outcome(s)

Analgesia usage within the first 24 hours.

Key secondary outcome(s))

1. Side effects
2. Motor blockade

Completion date

30/04/2010

Eligibility**Key inclusion criteria**

1. Both males and females, aged 18-100
2. American Society of Anesthesiologists (ASA) 1 and 2
3. Patients undergoing femoral sciatic blocks for elective orthopaedic surgery

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Upper age limit

100 years

Sex

All

Key exclusion criteria

1. Children <18 years old
2. Pregnant women
3. Patients with contraindications to spinal anaesthetic
4. Patients unable to give informed consent

Date of first enrolment

01/05/2009

Date of final enrolment

30/04/2010

Locations**Countries of recruitment**

United Kingdom

Wales

Study participating centre
Anaesthetics Department
Denbighshire
United Kingdom
LL18 5UJ

Sponsor information

Organisation
North Wales NHS Trust (UK)

ROR
<https://ror.org/04a496k07>

Funder(s)

Funder type
Government

Funder Name
North Wales NHS Trust (UK)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary
Not provided at time of registration