

# Comparison of 4% articaine and bupivacaine /lignocaine for sub-tenon anaesthesia in phacoemulsification cataract surgery

<b>Submission date</b> 30/09/2004	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 30/09/2004	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
<b>Last Edited</b> 22/02/2008	<b>Condition category</b> Eye Diseases	<input type="checkbox"/> Individual participant data

## Plain English summary of protocol

Not provided at time of registration

## Contact information

### Type(s)

Scientific

### Contact name

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### Contact details

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## Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

N0203132063

# Study information

## Scientific Title

## Study objectives

To assess if articaine 4% is a suitable and SAFE agent for use in sub-tenon anaesthesia of the eye (for cataract surgery).

## 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)

Hospital

## Study type(s)

Treatment

## Participant information sheet

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

Cataract surgery

## Interventions

Patients will be randomly allocated to one of two groups using sealed, numbered envelopes and computer randomisation. Group A will receive sub-tenon's anaesthesia using 4% articaine and group B will receive a mixture of equal volume of 0.5% bupivacaine and 2% lignocaine. Ocular movements will be scored for each direction of gaze in the superior, inferior, medial and lateral directions with a maximum score for each direction of 3 points and a possible total maximum of 12 points. Patients will be considered to be ready for surgery when the ocular scores are 5 or less. Table showing scoring system for ocular movements. Full Movement 3/ Moderate Movement 2/ Flicker of movement 1/ No movement 0. In addition formal ocular motility testing will be undertaken at the orthoptics department immediately before and after surgery.

## Intervention Type

Drug

## Phase

Not Specified

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

Articaine, bupivacaine/lignocaine

**Primary outcome measure**

The aim of the trial is to examine the possibility that the success rate of sub-tenon anaesthesia can be improved by using 4% articaine rather than the presently used combination of lignocaine /bupivacaine. Sub-tenon's anaesthesia has distinct advantages over 'sharp needle' technique, chiefly being globe perforation but currently, acceptance of this technique is hampered by poor success rate. If the success rate of sub-tenons anaesthesia could be enhanced by 4% articaine then it would become a widely used technique.

Study endpoints: Collating data and to see if 4% articaine is safe and effective compared to existing lignocaine/bupivacaine anaesthetic agent.

**Secondary outcome measures**

Not provided at time of registration

**Overall study start date**

16/09/2003

**Completion date**

31/12/2005

## **Eligibility**

**Key inclusion criteria**

Patient will be selected at random from the waiting list. Letters will be sent out to the patient along with appointment letter. They will be contacted a day prior to surgery and their willingness to participate ascertained on the day of surgery.

**Participant type(s)**

Patient

**Age group**

Adult

**Sex**

Both

**Target number of participants**

65

**Key exclusion criteria**

1. Aged less than 18 years
2. Previous intra-ocular surgery
3. Pupil diameter less than 5 mm when fully dilated
4. Pregnant females or of child bearing potential
5. Those known to have reduced plasma cholinesterase levels

6. Patient unwilling to participate in the study
7. A history of allergy to amide-type anaesthetics
8. Subjects of non-therapeutic research

**Date of first enrolment**

16/09/2003

**Date of final enrolment**

31/12/2005

## Locations

**Countries of recruitment**

England

United Kingdom

**Study participating centre**

**Royal Devon & Exeter Hospital (Wonford)**

Exeter

United Kingdom

EX2 5DW

## Sponsor information

**Organisation**

Department of Health

**Sponsor details**

Richmond House

79 Whitehall

London

United Kingdom

SW1A 2NL

**Sponsor type**

Government

**Website**

<http://www.dh.gov.uk/Home/fs/en>

## Funder(s)

**Funder type**

Government

**Funder Name**

Royal Devon and Exeter NHS Trust (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?
<a href="#">Results article</a>	Results	01/04/2008		Yes	No