

# Prospective randomised study of the influence of a lung recruitment strategy on oxygenation in the post-anaesthetic care unit (PACU)

<b>Submission date</b> 29/09/2006	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 29/09/2006	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
<b>Last Edited</b> 01/04/2010	<b>Condition category</b> Surgery	<input type="checkbox"/> Individual participant data

**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**  
N0436176302

## Study information

**Scientific Title**

**Study objectives**

The aim of the study is to investigate whether lung recruitment manoeuvres performed near the end of surgery can have beneficial effects on oxygenation that persist into the early postoperative period.

**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

**Study type(s)**

Treatment

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

Surgery: Anaesthesia

**Interventions**

Added 01/04/10 (see publication for further details):

Adult patients undergoing elective surgery requiring tracheal intubation and an arterial catheter were randomized to receive:

1. Lung recruitment manoeuvre of 40 cm H<sub>2</sub>O for 15 s, 30 min before the end of anaesthesia, followed by 10 cm H<sub>2</sub>O of PEEP and then 10 cm H<sub>2</sub>O of CPAP from return of spontaneous breathing until extubation
2. No lung recruitment manoeuvre, ≤5 cm H<sub>2</sub>O PEEP, and no CPAP.

Arterial blood gases taken at randomization and 1 h after extubation.

**Intervention Type**

Procedure/Surgery

**Phase**

Not Specified

**Primary outcome(s)**

Difference between intra-operative and post-operative alveolar to arterial oxygen difference (A-aDO<sub>2</sub>)

**Key secondary outcome(s)**

Not provided at time of registration

**Completion date**

27/02/2007

# Eligibility

## Key inclusion criteria

Elective adult patients (lower age limit 18 years, no upper age limit) undergoing operative procedures lasting longer than 45 minutes requiring tracheal intubation muscle relaxation and the insertion of an arterial catheter on clinical grounds who will postoperatively be admitted to the post anaesthetic care unit.

## Participant type(s)

Patient

## Healthy volunteers allowed

No

## Age group

Adult

## Lower age limit

18 years

## Sex

All

## Key exclusion criteria

Does not match inclusion criteria

## Date of first enrolment

27/02/2006

## Date of final enrolment

27/02/2007

# Locations

## Countries of recruitment

United Kingdom

England

## Study participating centre

Department of Anaesthesia

Leeds

United Kingdom

LS1 3EX

# Sponsor information

## Organisation

Record Provided by the NHSTCT Register - 2006 Update - Department of Health

## Funder(s)

### Funder type

Government

### Funder Name

Leeds Teaching Hospitals NHS Trust (UK)

### Funder Name

NHS R&D Support Funding

## 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?
<a href="#">Results article</a>	results	01/05/2010		Yes	No