

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

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

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers
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

Secondary study design

Randomised controlled trial

Study setting(s)

Hospital

Study type(s)

Treatment

Participant information sheet

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 H₂O for 15 s, 30 min before the end of anaesthesia, followed by 10 cm H₂O of PEEP and then 10 cm H₂O of CPAP from return of spontaneous breathing until extubation
2. No lung recruitment manoeuvre, ≤5 cm H₂O PEEP, and no CPAP.

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

Intervention Type

Procedure/Surgery

Phase

Not Specified

Primary outcome measure

Difference between intra-operative and post-operative alveolar to arterial oxygen difference (A-aDO₂)

Secondary outcome measures

Not provided at time of registration

Overall study start date

27/02/2006

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

Age group

Adult

Lower age limit

18 Years

Sex

Both

Target number of participants

44 (22 per group) (added 01/04/10; see publication)

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

England

United Kingdom

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

Sponsor details

The Department of Health, Richmond House, 79 Whitehall

London

United Kingdom

SW1A 2NL

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dhmail@doh.gsi.org.uk

Sponsor type

Government

Website

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

Funder(s)

Funder type

Government

Funder Name

Leeds Teaching Hospitals NHS Trust (UK)

Funder Name

NHS R&D Support Funding

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	01/05/2010		Yes	No