

Maintaining and improving skills in fiberoptic intubation

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 type="checkbox"/> Results
Last Edited 27/01/2015	Condition category Surgery	<input type="checkbox"/> Individual participant data <input type="checkbox"/> 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
N0265105787

Study information

Scientific Title
Maintaining and improving skills in fiberoptic intubation

Study objectives
How frequently do anaesthetists need to perform fiberoptic intubation in order to maintain or improve their endoscopy skills?

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

Specifically for research purposes.

45 consultant anaesthetists, based at University Hospital Birmingham, who have performed few or no fiberoptic intubations over the last 3 years, will be studied. Each one will perform 15 fiberoptic orotracheal intubations with a videoendoscope, in elective surgical patients, ASA groups 1 or 11, who need orotracheal intubation as part of their anaesthetic management, under the supervision of an anaesthetist experienced in the technique. Each patient will receive a standard anaesthetic induction and will be treated with isoflurane in 100% oxygen for 2-3 minutes before intubation. The instructor will give demonstrations, advice, feedback guidance and direct assistance as necessary. The time taken for the fibrescope tip to pass from the mouth to the carina will be noted and recorded. If the oxygen saturation falls below 97% at any time, or the ECG or BP readings fall outside normal limits or if there is any cause for concern about the patient's safety or if the consultant under refresher training is unable to complete the endoscopy within 60 seconds, the instructor will take over and complete the intubation. When the first 15 endoscopies have been performed, learning curves will be constructed for each anaesthetist.

Each anaesthetist will then be randomly allocated to one of three groups. The first group of anaesthetists will perform one intubation every three months, the second group will perform one intubation per month and the third group will perform one intubation per week, again under the supervision of an experienced endoscopist, under the conditions described previously. After one year, each member of each group will then perform a further 15 intubations under the same conditions as before.

The group learning curves will be compiled and compared. The statistical analysis will be performed by Craig Ramsay, Senior Statistician, Health Services Research Unit, University of Aberdeen and will determine which group's skills (if any) have improved, remained stable or deteriorated.

Intervention Type

Procedure/Surgery

Phase

Not Specified

Primary outcome(s)

Not provided at time of registration

Key secondary outcome(s)

Not provided at time of registration

Completion date

22/02/2008

Eligibility

Key inclusion criteria

The anaesthetists involved will all be consultants based at University Hospital Birmingham. They will be those who have performed few or no fiberoptic intubations over the last 3 years, but who have a strong desire to develop and maintain proficiency in this field.

The patients involved will be elective general, orthopaedic, plastic, gynaecological, ENT or maxillofacial surgical patients, ASA group 1 or 11, aged 16 to 65, who require orotracheal intubation as part of their anaesthetic management and who give informed consent.

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Not Specified

Sex

Not Specified

Key exclusion criteria

Patients with morbid obesity, oesophageal reflux or expected to present difficult intubation will not be included.

Date of first enrolment

22/02/2002

Date of final enrolment

22/02/2008

Locations

Countries of recruitment

United Kingdom

England

Study participating centre
Selly Oak Hospital
Birmingham
United Kingdom
B29 6JD

Sponsor information

Organisation

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

Funder(s)

Funder type

Hospital/treatment centre

Funder Name

University Hospital Birmingham 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?
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes