# Comparison of two types of treatment which cause short acting muscle relaxation to determine which treatment allows patients to resume normal breathing in the shortest period of time

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category [] Individual participant data
Record updated in last year
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# Plain English summary of protocol

Not provided at time of registration

# Contact information

# Type(s)

Scientific

#### Contact name

Ms Rosemary Hogg

#### Contact details

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# Additional identifiers

EudraCT/CTIS number

IRAS number

#### ClinicalTrials.gov number

#### Secondary identifying numbers

09005RM-CS

# Study information

#### Scientific Title

Time to resumption of spontaneous respiration in patients administered either suxamethonium or rocuronium followed by sugammadex: a randomised double-blind controlled trial

#### **Study objectives**

There is no differece in the time to resumption of breathing or incidence of desaturation in patients receiving either suxamethonium or rocuronium followed by one of two doses of sugammadex.

#### Ethics approval required

Old ethics approval format

#### Ethics approval(s)

Scotland A Research Ethics Committee, 24/08/2009, ref: 09/MRE00/29

#### Study design

Randomised controlled double-blind trial

#### Primary study design

Interventional

## Secondary study design

Randomised controlled trial

# Study setting(s)

Hospital

# Study type(s)

Treatment

## Participant information sheet

Not available in web format, please use the contact details to request a patient information sheet

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

Routine general anaesthesia

#### **Interventions**

After pre-oxygenation, patients will be randomised to one of three groups for the administration of either: suxamethonium 1 mg/kg, rocuronium 1 mg/kg followed by sugammadex 10 mg/kg or rocuronium 1 mg/kg followed by sugammadex 16 mg/kg. Sugammadex will be administered 3 minutes after rocuronium; 0.9% saline will be administered at this time in the suxamethonium group to maintain blinding.

#### Intervention Type

Drug

#### Phase

Not Applicable

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

Suxamethonium, rocuronium, sugammadex

#### Primary outcome measure

Length of time to resumption of spontaneous ventilation as indicated by visible diaphragmatic movement or decrease in oxygen saturation to less than or equal to 90% before onset of spontaneous ventilation

#### Secondary outcome measures

- 1. Frequency of desaturation to less than or equal to 90%
- 2. Length of time to movement of reservoir bag
- 3. Length of time to first capnographic evidence of ventilation
- 4. Incidence of adverse events in all groups

#### Overall study start date

01/09/2009

## Completion date

01/02/2010

# **Eligibility**

#### Key inclusion criteria

- 1. American Society of Anaesthesiologists (ASA) class I III
- 2. Patients able to give written informed consent
- 3. Patients requiring general anaesthesia
- 4. Patients aged 18 65 years, either sex

#### Participant type(s)

Patient

#### Age group

Adult

#### Lower age limit

18 Years

#### Upper age limit

65 Years

#### Sex

Both

## Target number of participants

#### 90 patients - 30 randomised to each group

#### Key exclusion criteria

- 1. History of dementia or difficulty in providing informed consent
- 2. Patients with chronic obstructive pulmonary disease (COPD)
- 3. Patients with a history of ischaemic heart disease (IHD)
- 4. Patients with a haemoglobin concentration of less than 10 g/dl
- 5. Patients with a history of known difficulty in intubation or with an anticipated challenging airway
- 6. Pregnancy
- 7. Patients with a history of allergy to any of the medications used in the study

#### Date of first enrolment

01/09/2009

#### Date of final enrolment

01/02/2010

# Locations

#### Countries of recruitment

Northern Ireland

United Kingdom

# Study participating centre Queen's University Belfast

Belfast United Kingdom BT12 6BJ

# Sponsor information

#### Organisation

Belfast Health and Social Care Trust (UK)

# Sponsor details

Grosvenor Road Belfast Northern Ireland United Kingdom BT12 6BJ

# Sponsor type

Hospital/treatment centre

#### Website

http://www.belfasttrust.hscni.net

#### ROR

https://ror.org/02tdmfk69

# Funder(s)

# Funder type

Government

#### **Funder Name**

Belfast Health and Social Care Trust (UK) (ref: 09005RM-CS)

# **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