Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Comparison of different doses of remifentanil on tracheal intubation in the absence of muscle relaxants

Protocol summary

Summary

The aim of this randomized double-blind clinical trial is to evaluate Laryngoscopy and tracheal intubating condition after co-induction with propofol plus lidocaine and different doses of remifentanil in the absence of muscle relaxant drugs. A total of 162 patients, meeting eligibility criteria, were randomly allocated into two equal groups. After establishing routine monitors, blood pressure and heart rate are measured and serve as baseline values. All patients after hydration and premedication with 0.02 mg/kg midazolam will receive 1.5 mg/kg lidocaine, 2 mg/kg propofol and according to the group 2 or 3 µg/kg remifentanil. 90 seconds after induction of anesthesia, laryngoscopy and intubation was performed. Laryngoscopy and intubation conditions on the movement and position of vocal cord, airway reaction and limb movement as excellent, good and poor will be assessed. Immediately and 5 min after laryngoscopy and tracheal intubation, blood pressure and heart rate will be measured. Finally Laryngoscopy and intubation conditions and blood pressure and heart rate are compared between the groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201110216803N2**
Registration date: **2011-10-27, 1390/08/05**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2011-10-27, 1390/08/05

Registrant information

Name

Abolfazl Firouzian

Name of organization / entity

Mazandaran University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Mazandaran University of Medical Sciences

Expected recruitment start date

2006-09-23, 1385/07/01

Expected recruitment end date

2007-02-20, 1385/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of different doses of remifentanil on tracheal intubation in the absence of muscle relaxants

Public title

The effect of remifentanil on endotracheal intubation

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Informed written consent; ASA class I-II; Age between 18 and 50 years; Elective surgery; Mallampati class I-II. Exclusion criteria: History of difficult intubation; Pulmonary diseases; Recent respiratory tract infection; History of previous surgery on the larynx; Smoking; Gastroesophageal reflux; Hiatal hernia; Substance abuse; Pregnancy; Obesity; Renal diseases

(baseline serum creatinine > 2mg/dl); Hepatic diseases (liver function tests > 1.5 times of the normal upper limit).

Age
From **18 years** old to **50 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **162**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Mazandaran University of Medical Sciences

Street address
Mazandaran University of Medical Sciences, Moallem Square

City
Sari

Postal code
46175866

Approval date
2006-09-13, 1385/06/22

Ethics committee reference number
63-85

Health conditions studied

1

Description of health condition studied
In the absence of muscle relaxants to facilitate intubation

ICD-10 code
T88.4

ICD-10 code description
Failed or difficult intubation

Primary outcomes

1

Description
tracheal intubation

Timepoint
90 seconds after induction of anesthesia

Method of measurement
on the movement and position of vocal cord, airway reaction and limb movement as excellent, good and poor will be assessed.

Secondary outcomes

1

Description
systolic pressure

Timepoint
Immediately and 5 min after laryngoscopy and tracheal intubation

Method of measurement
manometer

2

Description
diastolic pressure

Timepoint
Immediately and 5 min after laryngoscopy and tracheal intubation

Method of measurement
manometer

3

Description
heart rate

Timepoint
Immediately and 5 min after laryngoscopy and tracheal intubation

Method of measurement
manitoring

Intervention groups

1

Description
intervention 1: Remifentanil 2 µg/kg

Category
Treatment - Drugs

2

Description
intervention 2 : Remifentanil 3 µg/kg

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Emam khomeini hospital
Full name of responsible person
Alieh Zamani Kiasary MD,Assistant Professor
Street address
Emam khomeini hospital, Amirmazandarani Ave.
City
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Mazandaran University of Medical Sciences
Full name of responsible person
Ahmad Ali Enayati MD
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Mazandaran University of Medical Sciences, Moallem Square
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Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Mazandaran University of Medical Sciences
Proportion provided by this source
100
Public or private sector
empty
Domestic or foreign origin
empty
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
empty

Person responsible for general inquiries

Contact

Person responsible for scientific inquiries

Contact
Name of organization / entity
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Full name of responsible person
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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)
empty
Study Protocol
empty
Statistical Analysis Plan
empty
Informed Consent Form
empty
Clinical Study Report
empty
Analytic Code
empty
Data Dictionary
empty