

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Comparison of intubation time of jaw thrust maneuver versus transillumination in intubation by flexible fiberoptic laryngoscope in patients with elective surgeries.

Protocol summary

Summary

The aim of this study is comparing of jaw thrust maneuver versus transillumination of anterior neck in intubation by flexible fiberoptic laryngoscope. This is a randomized clinical trial on 90 patients aged 18 – 65 year who are selected for elective surgeries. Inclusion criteria: ASA classification of I and II, Body Mass Index (BMI) 20-25 (normal), mallampati score I or II. Exclusion criteria: patients with head and neck surgery and cesarean session, excessive obesity, cardiovascular diseases, high blood pressure, diabetes, cerebrovascular diseases. We divided these patients into three groups randomly: 1. Oral intubation by flexible fiberoptic laryngoscope (FFL) using jaw thrust maneuver and pulling tongue 2. Oral intubation by FFL using transillumination of anterior neck, without inspection through bronchoscope 3. Oral intubation by FFL using transillumination of anterior neck and inspection through bronchoscope. Duration of intubation from insertion of bronchoscope until the end of intubation and removal of bronchoscope from the mouth and connecting the capnograph to tracheal tube is calculated by chronometer. Moreover the number of time which SPo2 drops, bradycardia arises, and suctioning, reventilation and reintubation is needed, will be recorded. The maximum times of attempt for intubation is two times and if within 90 seconds intubation does not succeed the patient will be excluded. After the surgery in recovery room and ward patients will be questioned for sore throat, hoarseness and dysphagia and points will be given to the associated group.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201403069585N4**

Registration date: **2014-05-27, 1393/03/06**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-05-27, 1393/03/06

Registrant information

Name

Ali Barkhori

Name of organization / entity

Kerman University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

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Recruitment status

Recruitment complete

Funding source

Kerman University of Medical Sciences

Expected recruitment start date

2014-03-21, 1393/01/01

Expected recruitment end date

2014-06-21, 1393/03/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of intubation time of jaw thrust maneuver versus transillumination in intubation by flexible

fiberoptic laryngoscope in patients with elective surgeries.

Public title

Comparison between jaw thrust maneuver and transillumination in intubation by flexible fiberoptic laryngoscope

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: ASA classification of I and II; Body Mass Index (BMI) 20-25 (normal); mallampati score I or II with thyromental interval of more than 6 cm with no difficulty of airway. Exclusion criteria: patients with head and neck surgery and cesarean session; excessive obesity; cardiovascular diseases; high blood pressure; diabetes; cerebrovascular diseases; GERD (acid reflux); history of consumption of medication which are influence heart rate and blood pressure and GI tract; and history of hoarseness; sore throat; and difficult intubation.

Age

From **17 years** old to **65 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **90**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

The plan of anesthesia is explained for patients and after obtaining informed consent, they will be monitored completely, blood pressure is measured noninvasive and PETCO₂ is measured by mainstream method. All intubation will be performed by a same person. The method of anesthesia for all of them is similar. Randomization is done by draw.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Kerman University Medical Sciences

Street address

Shafa Square

City

Kerman

Postal code

Approval date

2014-02-19, 1392/11/30

Ethics committee reference number

k/92/577

Health conditions studied

1

Description of health condition studied

Endotracheal Intubation

ICD-10 code

T88.4

ICD-10 code description

Failed or difficult intubation

Primary outcomes

1

Description

Duration of intubation

Timepoint

from the time of bronchoscope insertion to the end of intubation

Method of measurement

by chronometer and the unit of second

Secondary outcomes

1

Description

Blood pressure

Timepoint

Before induction, after induction and every minute for 5 minutes

Method of measurement

Monitoring device / mmHg

2

Description

Heart Rate

Timepoint

Before induction, after induction and every minute for 5 minutes

Method of measurement

Monitoring device / beat per minute

3

Description

Sore throat

Timepoint

After surgery

Method of measurement

Patient report of having or not having it

4

Description

Dysphagia

Timepoint

After surgery

Method of measurement

Patient report of having or not having it

5

Description

Hoarseness

Timepoint

After surgery

Method of measurement

Examination of the patient for having or not having it

Intervention groups

1

Description

In control group: oral intubation is performed by flexible fiberoptic laryngoscope made by Olympus company using jaw thrust maneuver and pulling tongue.

Category

Treatment - Devices

2

Description

Intervention in second group: oral intubation is performed by flexible fiberoptic laryngoscope made by Olympus company using transillumination of anterior neck without inspection through bronchoscope.

Category

Treatment - Devices

3

Description

Intervention in first group: oral intubation is performed by flexible fiberoptic laryngoscope made by Olympus company using transillumination of anterior neck with inspection through bronchoscope.

Category

Treatment - Devices

Recruitment centers

1

Recruitment center

Name of recruitment center

Bahonar Hospital

Full name of responsible person

Jafar Salehi

Street address

Baghemelli Square

City

Kerman

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Kerman University of Medical Sciences

Full name of responsible person

Fatemeh Hassani

Street address

Tahmasbabad Square, Ebnesina Street

City

Kerman

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Kerman 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

Name of organization / entity

Kerman University of Medical Sciences

Full name of responsible person

Jafar Salehi

Position

Assistant of anesthesiology

Other areas of specialty/work

Street address

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Kerman University of Medical Sciences

Full name of responsible person

Mehrdad Noroozi

Position

Anesthesiologist

Other areas of specialty/work**Street address**

Bahonar Hospital

City

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Postal code**Phone**

00

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javadkordi@yahoo.com

Web page address

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Postal code**Phone**

00

Fax**Email****Web page address****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

Person responsible for updating data**Contact****Name of organization / entity**

Kerman University of Medical Sciences

Full name of responsible person

Jafar Salehi

Position

Assistant of anesthesiology

Other areas of specialty/work**Street address**