

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Jun 2026

Comparison between direct laryngoscopy and video laryngoscopy complications in patients over 65 years old

Protocol summary

Summary

Background and Objective: Laryngoscopy and tracheal intubation are performed by either direct laryngoscopy or video laryngoscopy. Video laryngoscopy complications in elderly patients have remained unknown. In this study complications of these two methods of laryngoscopy were compared in old patients. Materials and Methods: This study is a clinical trial. A total of 60 patients over 65 who scheduled for elective surgery are divided into two groups of video laryngoscope or Macintosh laryngoscope. Inclusion criteria 1- ASA Class (American society of anesthesiology status)1 or 2 2- Age over 65 years 3- Patients undergoing any elective surgery requiring general anesthesia 4- Absence of cardiovascular, respiratory, neuromuscular and coagulopathy disease 5- Absence of high aspiration risk 6- No history of difficult intubation 7- Not probability of difficult intubation in a clinical examination exclusion criteria 1- Vomiting and aspiration during anesthesia and laryngoscopy 2- cardiac arrest during anesthesia and laryngoscopy In each patient, duration of laryngoscopy, tracheal tube insertion time, number of attempts for intubation, heart rate, systolic, diastolic and mean arterial pressure prior to induction of anesthesia and one minute after intubation are recorded. Finally, the two groups are compared.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201409295363N4**
Registration date: **2014-10-04, 1393/07/12**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-10-04, 1393/07/12

Registrant information

Name

Taraneh Naghibi

Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Zanjan University of Medical Science

Expected recruitment start date

2014-06-27, 1393/04/06

Expected recruitment end date

2014-12-27, 1393/10/06

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison between direct laryngoscopy and video laryngoscopy complications in patients over 65 years old

Public title

video laryngoscopy complications in people over 65 years

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria 1- ASA Class (American society of anesthesiology status)1 or 2 2- Age over 65 years 3- Patients undergoing any elective surgery requiring general anesthesia 4- Absence of cardiovascular,

respiratory, neuromuscular and coagulopathy disease 5-
Absence of high aspiration risk 6- No history of difficult
intubation 7- Not probability of difficult intubation in a
clinical examination exclusion criteria 1- Vomiting and
aspiration during anesthesia and laryngoscopy 2- cardiac
arrest during anesthesia and laryngoscopy

Age

From **65 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Zanjan University of Medical Science

Street address

Zanjan University of Medical Science

City

Zanjan

Postal code

Approval date

2014-05-11, 1393/02/21

Ethics committee reference number

A-11-511-3

Health conditions studied

1

Description of health condition studied

Anesthesiology

ICD-10 code

Y70

ICD-10 code description

Anaesthesiology devices associated with adverse incidents

Primary outcomes

1

Description

Heart rate changes

Timepoint

Before induction of anesthesia , and a minute later

Method of measurement

Pulse oxymeter

2

Description

Systolic blood pressure changes

Timepoint

Before induction of anesthesia , and a minute later

Method of measurement

Non -invasive blood pressure

3

Description

Diastolic blood pressure changes

Timepoint

Before induction of anesthesia , and a minute later

Method of measurement

Non -invasive blood pressure

4

Description

Mean blood pressure changes

Timepoint

Before induction of anesthesia , and a minute later

Method of measurement

Non -invasive blood pressure

5

Description

Duration of laryngoscopy

Timepoint

Arrival time of the laryngoscope into the mouth until
endotracheal tube pass through the vocal cord

Method of measurement

Chronometer

6

Description

Number of intubation attempts

Timepoint

Number of attempts to enter the trachea tube into the
trachea of the patient

Method of measurement

Observation

7

Description

Sore throat

Timepoint

The patient complained of sore throat

Method of measurement

Question

Secondary outcomes

empty

Intervention groups

1

Description

Laryngoscope, blade Makin Tash, Number 3

Category

Treatment - Other

2

Description

Video laryngoscope, blade number3

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Mosavi Hospital

Full name of responsible person

Dr Taraneh Naghibi

Street address

Mosavi Hospital, Gavazang Blvd, Zanzan, Iran

City

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice- Chancellor for Research of Zanzan University

Full name of responsible person

Alireza Biglari MD, PhD

Street address

Office of Vice- Chancellor for Research, Zanzan
University of Medical Sciences

City

Zanzan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice- Chancellor for Research of Zanzan University

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

Zanzan University of Medical Sciences

Full name of responsible person

Dr shermin Gharanfoli

Position

Resident of Anesthesiology

Other areas of specialty/work

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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