

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Comparison of the glotic view and ease of endotracheal intubation with direct laryngoscopy and Wi-Fi video laryngoscope in adults patients during induction of anesthesia

Protocol summary

Study aim

Determining the time required for tracheal intubation and grading the laryngeal view with Wi-Fi video laryngoscope during induction of general anesthesia

Design

A single-blind randomized clinical trial with control group, and parallel groups, on 102 patients. Random generator software was used to randomize.

Settings and conduct

A single-blind clinical trial study is performed on patients undergoing general anesthesia that need laryngoscopy and tracheal intubation at Sina Hospital

Participants/Inclusion and exclusion criteria

Inclusion criteria: All patients undergoing surgery under general anesthesia, ages 18-80 years who need endotracheal intubation Exclusion criteria: Patients who have an airway pathology Patients with a history of neck fixation surgery Patients with a body mass index greater than 40

Intervention groups

Intervention group: Patients who are candidates for general anesthesia and endotracheal intubation after monitoring and 4 minutes after injection of anesthetic drugs, laryngoscopy is performed with Wi-Fi video laryngoscope. Degree of laryngeal view, the time spent for intubation and the number of attempts, blood pressure and heart rate before and after laryngoscopy and the occurrence of sore throat after surgery are evaluated. Control group: Laryngoscopy is performed with direct laryngoscopy with Macintosh blade and degree of laryngeal view, the time spent for intubation and the number of attempts, blood pressure and heart rate before and after laryngoscopy and the occurrence of sore throat after surgery are evaluated.

Main outcome variables

Duration of intubation, degree of larynx view, changes in blood pressure and heart rate during laryngoscopy,

incidence of sore throat

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20130304012695N8**

Registration date: **2020-11-27, 1399/09/07**

Registration timing: **registered_while_recruiting**

Last update: **2020-11-27, 1399/09/07**

Update count: **0**

Registration date

2020-11-27, 1399/09/07

Registrant information

Name

mohammadreza khajavi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 6312 1220

Email address

khajavim@tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-10-21, 1399/07/30

Expected recruitment end date

2021-04-19, 1400/01/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the glotic view and ease of endotracheal intubation with direct laryngoscopy and Wi-Fi video laryngoscope in adults patients during induction of anesthesia

Public title

Evaluate the performance of WiFi laryngoscope video

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

All patients who need an endotracheal intubation for general anesthesia

Exclusion criteria:

Patients who have an airway pathology Patients with a history of neck fixation surgery Patients with a body mass index greater than 40

Age

From **18 years** old to **80 years** old

Gender

Both

Phase

N/A

Groups that have been masked

- Participant

Sample size

Target sample size: **102**

Randomization (investigator's opinion)

Randomized

Randomization description

To randomize patients with inclusion criteria Block balanced randomization is used. Before studying, one of the person who is not a member of the research team performs the randomization process by using Random generator software, forms blocks with size of 4 for the intervention and control group. The complete cards of blocks are given to the head of the operating room, who is unaware of the study, in an envelope. A card is given to the patient after patient entrance to operating room.

Blinding (investigator's opinion)

Single blinded

Blinding description

Patients participating in the study are not aware of the type of laryngoscope for intubation

Placebo

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics committee of school of medicine, Tehran university of medical sciences

Street address

Sina hospital, Hasan Abad Sq-Emam khomeni st.

City

Tehran

Province

Tehran

Postal code

1136746911

Approval date

2020-10-21, 1399/07/30

Ethics committee reference number

IR.TUMS.SINAHOSPITAL.REC.1399.060

Health conditions studied**1****Description of health condition studied**

intra tracheal intubation

ICD-10 code

T88.4

ICD-10 code description

Failed or difficult intubation

Primary outcomes**1****Description**

Duration of intubation

Timepoint

From the moment the laryngoscope enters the mouth to observe the expiratory wave of the capnograph

Method of measurement

With stopwatch and in seconds

Secondary outcomes**1****Description**

blood pressure

Timepoint

before and after intubation

Method of measurement

Non invasive blood pressure/ mmhg

2**Description**

Glottic view

Timepoint

At the time of laryngoscopy

Method of measurement

According to Cormac criteria

3

Description

Heart Rate

Timepoint

Before and after intubation

Method of measurement

with monitoring

4

Description

sore throate

Timepoint

After surgery

Method of measurement

Patient report of presence or absence

Intervention groups

1

Description

Intervention group: Intubation is done with a Wi-Fi video laryngoscope

Category

Treatment - Devices

2

Description

Control group: Tracheal Intubation is performed by direct laryngoscopy

Category

Treatment - Devices

Recruitment centers

1

Recruitment center**Name of recruitment center**

Sina Hospital

Full name of responsible person

Mohammad Reza khajavi

Street address

Sina Hospital Hassan Abad sq, Emnam Khomini st.

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khajavim@tums.ac.ir

Sponsors / Funding sources

1

Sponsor**Name of organization / entity**

Tehran University of Medical Sciences

Full name of responsible person

محمدعلی صحراییان

Street address

Keshavarz Blvd., Ghods St., Central Organization of the University, Sixth Department of Research and Technology

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vcr@tums.ac.ir

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Tehran University of Medical Sciences

Proportion provided by this source

50

Public or private sector

Private

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin**Type of organization providing the funding**

Persons

Person responsible for general inquiries

Contact**Name of organization / entity**

Tehran University of Medical Sciences

Full name of responsible person

Tehran University of Medical Sciences

Position

Professor

Latest degree

Specialist

Other areas of specialty/work

Anesthesiology

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Person responsible for scientific inquiries

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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

The results of the main study data

When the data will become available and for how long

6 months after the end of the study

To whom data/document is available

University and industry researchers

Under which criteria data/document could be used

Share experiences to increase the use of video laryngoscope

From where data/document is obtainable

Dr. Khajavi e-mail address khajavim@tums.ac.ir

What processes are involved for a request to access data/document

Requested by email respons within a week

Comments