Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Comparison of the severity of epistaxis between the finger guided and conventional technique of nasotracheal intubation in patients undergoing maxillofacial surgeries

Protocol summary

Study aim

Determination of the severity of epistaxis in nasal endotracheal intubation with the help of finger guidance in the nasopharynx by endotracheal intubation in patients undergoing maxillofacial surgery

Design

This study is a double-blind randomized clinical trial performed on 68 patients undergoing maxillofacial surgery. Patients were randomly assigned to two groups using random allocation software.

Settings and conduct

In this study, the patient and the data collector were unaware of the study grouping The place of study is in Al-Zahra Hospital

Participants/Inclusion and exclusion criteria

Inclusion criteria: Age 15-70 years; Candidate for elective maxillofacial surgery under general anesthesia; Lack of sensitivity to left or right nostrils; ASA One and Two; No history of snoring or sleep apnea; Lack of previous nasal diseases such as trauma, surgery, obstruction, and bleeding; Absence of coagulation disorders; Not taking medications that increase the risk of bleeding; No history of hypertension; Absence of obesity (BMI> 30); Exclusion Criteria: Unable to perform nasal intubation; Any change in the intubation technique; Doubt about Konka fracture

Intervention groups

We have two intervention groups The first group was to guide the tube blind forward until the endotracheal tube was seen in the pharyngeal area following direct laryngoscopy with a Macintosh laryngoscope. In the second group, after the finger of the non-dominant hand enters the mouth and then continues to the path to the back of the soft palate in the nasopharynx, move the endotracheal tube forward after contacting the tip of the endotracheal tube with the fingertip. The path of the endotracheal tube was done with the help of finger guidance and slowly until the endotracheal tube enters the space of the oropharynx.

Main outcome variables

Epistaxis

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180416039326N15**
Registration date: **2020-09-21, 1399/06/31**
Registration timing: **retrospective**

Last update: **2020-09-21, 1399/06/31**
Update count: **0**

Registration date

2020-09-21, 1399/06/31

Registrant information

Name

Hamidreza Shetabi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

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Email address

hamidshetabi@med.mui.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-04-21, 1397/02/01

Expected recruitment end date

2019-04-21, 1398/02/01

Actual recruitment start date

2019-01-05, 1397/10/15

Actual recruitment end date
2019-08-25, 1398/06/03
Trial completion date
2019-08-27, 1398/06/05

Scientific title
Comparison of the severity of epistaxis between the finger guided and conventional technique of nasotracheal intubation in patients undergoing maxillofacial surgeries

Public title
Comparison of epistaxis in nasal tracheal intubation With finger guidance and conventional method
Purpose
Prevention
Inclusion/Exclusion criteria
Inclusion criteria:
Candidate for elective maxillofacial surgery under general anesthesia ASA One and Two Informed consent to participate in the study Age: 16 to 65 years old
Exclusion criteria:
History of bleeding disorders History of nasopharyngeal masses History of head, face and fracture trauma of the nose and cheekbones Taking any anticoagulant History of any surgery or manipulation of the nose
Age
From **16 years** old to **65 years** old
Gender
Both

Phase
N/A
Groups that have been masked

- Participant
- Care provider
- Investigator

Sample size
Target sample size: **90**
Actual sample size reached: **68**
Randomization (investigator's opinion)
Randomized
Randomization description
Patients who entered the study were randomly divided into two groups using computer software (Random allocation software).
Blinding (investigator's opinion)
Double blinded
Blinding description
The person who performed the intubation had no role in gathering information. The person who assessing intubation complications and observer who collecting information were unaware of study groups
Placebo
Not used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics committee of Isfahan Universiti of Medical Sciences
Street address
Sefa Boulevard
City
Isfahan
Province
Isfehan
Postal code
8174675731
Approval date
2017-06-10, 1396/03/20
Ethics committee reference number
IR.MUI.REC.1396.3.558

Health conditions studied

1

Description of health condition studied
Epistaxis
ICD-10 code
R04.0
ICD-10 code description
Epistaxis

Primary outcomes

1

Description
The severity of bleeding in the throat
Timepoint
After intubation through the nose
Method of measurement
See the throat

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: The dominant or more open nostril (Patent) was selected by alternating finger pressure on the left and right nasal fins and asking the patient to take a slow breath. Then nasal tube number 7 in women and number 7.5 in men were used for intubation. The endotracheal tube was then inserted through the dominant (more open) nostril and directed to the pharynx. In the first group, the tube was guided blindly forward until the endotracheal tube was seen in the pharyngeal area following direct laryngoscopy with a

Macintosh laryngoscope.

Category

Prevention

2

Description

Intervention group: In the second group, after the finger of the non-dominant hand enters the mouth and then continues to the back of the soft palate in the nasopharynx, We move the endotracheal tube forward So that after the tip of the endotracheal tube comes in contact with the tip of the finger, the end of the endotracheal tube path is guided by the finger and slowly until the endotracheal tube enters the oropharyngeal space. Then the endotracheal tube is guided to the endotracheal and if the accuracy of the intubation is ensured, the tube is fixed.

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Alzahra Hospital

Full name of responsible person

Hamidreza Shetabi

Street address

Al-Zahra Hospital, Sofe Boulevard

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Esfahan University of Medical Sciences

Full name of responsible person

Shaqayeq Haghjoo javanmard

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Hizar jarib BLVD, Isfahan University of Medical Sciences and Health Services - Deputy of Research and Technology of the University

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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

Esfahan University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Esfahan University of Medical Sciences

Full name of responsible person

Hamidreza Shetabi

Position

Associate professor

Latest degree

Specialist

Other areas of specialty/work

Anesthesiology

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Person responsible for scientific inquiries

Contact

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Full name of responsible person

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Position

Associate professor

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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)
Undecided - It is not yet known if there will be a plan to make this available
Study Protocol
No - There is not a plan to make this available
Statistical Analysis Plan
Undecided - It is not yet known if there will be a plan to make this available
Informed Consent Form
Undecided - It is not yet known if there will be a plan to make this available
Clinical Study Report
Yes - There is a plan to make this available
Analytic Code
Yes - There is 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
Information about the main outcome can be shared.
When the data will become available and for how long
Access period starts 6 months after the results are published
To whom data/document is available
Researchers working in academic and scientific institutions
Under which criteria data/document could be used
Use data to complete clinical trials
From where data/document is obtainable
Al-Zahra hospital
What processes are involved for a request to access data/document
By examining the researcher's request and providing sufficient documentation of her research and the reason for using the data can be provided.
Comments