

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Comparison of postoperation complication between Laryngeal Mask Airway and Endotracheal tube during low flow anesthesia with controlled ventilation

Protocol summary

Summary

Laryngeal Mask Airway is used as an alternative device for endotracheal tube for intubation of the airway during anesthesia and surgery. Common complications after operation include sore throat, coughing and dysphagia which are common after using endotracheal tubes. Simultaneous use of LMA and low flow anesthesia seems logical to reduce these complications, cost and operative room pollution. Therefore we aimed to compare postoperative complications between LMA and Endotracheal tube during low flow anesthesia with controlled ventilation. Eighty adult patients aging 20-60 years with ASA class I, II without the risk of airway problems, history of recent sore throat or cold and allergy to latex candidated for elective surgery will be included in this study. Patients will be randomly divided into two groups, in one group Laryngeal mask airway and in the other group endotracheal tube will be inserted. Anesthetic induction will be performed in all patients and monitoring will include ECG, pulse oximetry, NIBP, inspiratory and expiratory concentrations of isoflurane and peak and plateau airway pressures. After removing the airway device, the patient will be transferred to the PACU and severity of sore throat, cough and dysphagia will be assessed.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201203042582N5**

Registration date: **2012-03-15, 1390/12/25**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2012-03-15, 1390/12/25

Registrant information

Name

Ata Mahmoodpoor

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Tabriz University of Medical Sciences

Expected recruitment start date

2012-01-30, 1390/11/10

Expected recruitment end date

2012-06-30, 1391/04/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of postoperation complication between Laryngeal Mask Airway and Endotracheal tube during low flow anesthesia with controlled ventilation

Public title

Comparison of postoperation complication between Laryngeal Mask Airway and Endotracheal tube during low flow anesthesia with controlled ventilation

Purpose

Treatment

Inclusion/Exclusion criteria
 Inclusion criteria: adult patients with ASA class I and II aging 20-60 years who are candidates for elective surgery
 Exclusion criteria: possibility of air way problems, history of recent sore throat or a cold in the past 10 days, patients with latex allergy, patients with full stomach

Age
 From **20 years** old to **60 years** old

Gender
 Both

Phase
 N/A

Groups that have been masked
No information

Sample size
 Target sample size: **80**

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
 Tabriz university of medical sciences

Street address
 golgasht street

City
 tabriz

Postal code

Approval date
 2011-02-28, 1389/12/09

Ethics committee reference number
 4996/4/5

Health conditions studied

1

Description of health condition studied
 dysphagia

ICD-10 code
 R13

ICD-10 code description
 dysphagia

Primary outcomes

1

Description
 sore throat

Timepoint
 every 6 hours until 24 hours

Method of measurement
 asking from patient

2

Description
 cough

Timepoint
 every 6 hours until 24 hours

Method of measurement
 asking from patient

Secondary outcomes

1

Description
 dysphagia

Timepoint
 every 6 hours until 24 hours

Method of measurement
 asking from patient

Intervention groups

1

Description
 interventiobn group: insertion of LMA

Category
 Treatment - Other

2

Description
 control group: insertion of endotracheal tube

Category
 Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center
 nikookary hospital

Full name of responsible person
 Ata Mahmoodpoor

Street address
 Abbasi street

City
 Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

research chancellor, tabriz university of medical sciences

Full name of responsible person

Alireza Ostadrahimi

Street address

golgasht street

City

tabriz

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

Yes

Title of funding source

research chancellor, tabriz 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**

tabriz university of medical sciences

Full name of responsible person

Afsaneh Mohammadi

Position

medical student

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Person responsible for scientific inquiries

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Assistant professor

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Person responsible for updating data

Contact

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