

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

28 Jun 2026

### Comparison of the incidence of postoperative nausea and vomiting in strabismus surgery using laryngeal mask airway and endotracheal intubation

#### Protocol summary

##### Summary

The aim of current study is to compare airway management procedures including laryngeal mask airway (LMA) and endotracheal tube (ETT) in patients undergoing strabismus surgery that is associated with lower incidence of postoperative nausea and vomiting. The samples were 160 patients who were candidate for strabismus surgery in Khatamolanbya hospital of Mashhad University of Medical Sciences. This research was a single blind clinical trial, the recovery and ward staff members and also the statistical specialist were totally unaware of assigning the patients in two groups. Patients were divided into two equal groups of 80, based on random allocation table. Laryngeal mask airway (LMA) was used in one group and endotracheal tube (ETT) in the other one. Anesthesia induction and its maintenance were similar for all patients. All patients underwent cardiac monitoring, noninvasive blood pressure, pulse oximetry and capnography. At the end of surgery after endotracheal extubation or laryngeal mask airway removal, patients were transferred to the recovery room then patients were assessed at 24 hours for postoperative nausea and vomiting. The inclusion criteria included: aged over three years, being in the class of I-II of ASA and the exclusion criteria included: having a history of nausea and vomiting after the previous surgery, having a history of motion disease and antiemetic drug consumption 24 hours before surgery. Main variable in this study was the severity of nausea and vomiting which was measured by verbal rating scale.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2014020216449N1**  
Registration date: **2014-03-25, 1393/01/05**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2014-03-25, 1393/01/05

##### Registrant information

###### Name

Bahareh Dalir

###### Name of organization / entity

Mashhad University of Medical Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 51 1852 5209

###### Email address

dalirb901@mums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

myself

##### Expected recruitment start date

2013-06-10, 1392/03/20

##### Expected recruitment end date

2013-11-21, 1392/08/30

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparison of the incidence of postoperative nausea and vomiting in strabismus surgery using laryngeal mask airway and endotracheal intubation

## Public title

A study of airway management on the incidence of nausea and vomiting after surgery

## Purpose

Other

## Inclusion/Exclusion criteria

The inclusion criteria included: aged over three years, being in the class of I-II of ASA and the exclusion criteria included: having a history of nausea and vomiting after the previous surgery, having a history of motion disease and antiemetic drug consumption 24 hours before surgery.

## Age

From **3 years** old to **53 years** old

## Gender

Both

## Phase

N/A

## Groups that have been masked

*No information*

## Sample size

Target sample size: **160**

## Randomization (investigator's opinion)

Randomized

## Randomization description

## Blinding (investigator's opinion)

Single blinded

## Blinding description

## Placebo

Not used

## Assignment

Parallel

## Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Ethics committee of Mashhad University of Medical Sciences

##### Street address

Mashhad School of Medicine, Pardis University, Azadi Square, Mashhad, Khorasan Razavi, Iran

##### City

Mashhad

##### Postal code

9177948564

##### Approval date

2013-06-08, 1392/03/18

##### Ethics committee reference number

910843

## Health conditions studied

### 1

#### Description of health condition studied

Nausea and vomiting

#### ICD-10 code

R11

#### ICD-10 code description

Nausea and vomiting

## Primary outcomes

### 1

#### Description

the severity of nausea and vomiting

#### Timepoint

after surgery in the recovery room, 6 hours after surgery, 18 hours after surgery

#### Method of measurement

Data collection tool was a questionnaire and verbal rating scale was used to measure.

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Intervention 1: laryngeal mask airway (Green Medical Company, Japan) was placed (Weight based size based on factory recommendation) in the airway of patients.

#### Category

N/A

### 2

#### Description

Intervention 2: endotracheal tube (Supa Company, Iran) was placed (Weight based size based on factory recommendation) in the airway of patients.

#### Category

N/A

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Khatamolanbya hospital of Mashhad University of Medical Sciences

##### Full name of responsible person

Bahareh Dalir

##### Street address

Khatamolanbya hospital of Mashhad University of Medical Sciences, Abootaleb crossroads, Kolahdooz Ave. Mashhad, Khorasan Razavi, Iran

##### City

Mashhad

## Sponsors / Funding sources

1

### Sponsor

**Name of organization / entity**

Vice chancellor for research, Mashhad University of Medical Sciences

**Full name of responsible person**

Mohsen Tafaghodi

**Street address**

Mashhad School of Medicine, Pardis University, Azadi Square, Mashhad, Khorasan Razavi, Iran

**City**

Mashhad

**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, Mashhad 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**

Mashhad University of Medical Sciences

**Full name of responsible person**

Bahareh Dalir

**Position**

anesthesiology resident

**Other areas of specialty/work**

**Street address**

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**Web page address**

## Person responsible for scientific inquiries

### Contact

**Name of organization / entity**

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Bahareh Dalir

**Position**

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**Other areas of specialty/work**

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## Person responsible for updating data

### Contact

**Name of organization / entity**

Mashhad University of Medical Sciences

**Full name of responsible person**

Bahareh Dalir

**Position**

anesthesiology resident

**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*