

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 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

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Position

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Bahareh Dalir

Position

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Web page address

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