

Clinical Trial Protocol

Iranian Registry of Clinical Trials

21 Jul 2026

Evaluation of topical lidocaine efficacy on respiratory complications after laryngeal mask airway insertion

Protocol summary

Summary

Sore throat is one of the most common complications of general anesthesia. The source of pain may be from pharyngeal, laryngeal or tracheal and may be the cause of unpleasantness, discomfort and a bad memory after general anesthesia. This study considers evaluating the effectiveness of lidocaine gel on the sore throat, cough and scratchy throat after insertion of a laryngeal mask airway. Sixty patients who scheduled for elective eye surgery under general anesthesia and with criteria for inclusion in the study were randomly divided into two groups of intervention and control in one blind study. The posterior surface of LMAs was lubricated with lidocaine gel 2% in the intervention group and non-medical lubricant gel in the control group was used. After induction of anesthesia that was similar in all patients, the LMA was inserted using classical method by an anesthesiologist who was unaware of the gel that was used, and after ensuring adequate ventilation was fixed in place. Twenty-four hours after the operation the patient's sore throat, coughing and itchy throat were checked

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201304271766N5**
Registration date: **2013-05-08, 1392/02/18**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2013-05-08, 1392/02/18

Registrant information

Name

Karim Nasseri

Name of organization / entity

Kurdistan University of Medical Sciences

Country

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Recruitment status

Recruitment complete

Funding source

Kurdistan University of Medical sciences

Expected recruitment start date

2012-02-27, 1390/12/08

Expected recruitment end date

2013-06-27, 1392/04/06

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of topical lidocaine efficacy on respiratory complications after laryngeal mask airway insertion

Public title

Evaluation of Lidocaine efficacy on sore throat, cough and itching of the throat after laryngeal mask airway insertion

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: being candidate for elective eye surgery under general anesthesia; American society of Anesthesiologist physical status 1 or 2 and airway mallampati score 1 or 2. Exclusion criteria: history of allergy to study drugs; history of recent upper respiratory

tract infection and history of sore throat.

Age

From **15 years** old to **80 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Double blinded

Blinding description**Placebo**

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Kurdistan University of Medical Sciences Ethics Committee

Street address

Pasdaran Ave

City

Sanandaj

Postal code

Kurdistan

Approval date

2011-11-30, 1390/09/09

Ethics committee reference number

References number 10 of Second session of ethics committee- 25985/14

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

Respiratory complications of general anesthesia

ICD-10 code

T88.5

ICD-10 code description

Other complications of anaesthesia

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

Sore throat

Timepoint

24 hour after operation

Method of measurement

Physical examination

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

Cough

Timepoint

In post anesthesia care unit and 24 hour after operation

Method of measurement

Physical examination

2**Description**

Itching of the throat

Timepoint

In post anesthesia care unit and 24 hour after operation

Method of measurement

Physical examination

Intervention groups**1****Description**

Intervention group: The posterior surface of laryngeal mask airway will be lubricate with 2 ml 2% lidocaine gel

Category

Treatment - Drugs

2**Description**

Control group : The posterior surface of laryngeal mask airway will be lubricate with 2 ml non-medical lubricant gel

Category

Treatment - Drugs

Recruitment centers**1****Recruitment center****Name of recruitment center**

Beasat Hospital

Full name of responsible person

Karim Nasseri

Street address

Keshavarz Ave

City

Sanandaj

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Kurdistan University of Medical Sciences

Full name of responsible person

Ataollah Heidari

Street address

Vice chancellor for research, Kurdistan University of Medical Sciences, Pasdaran Ave

City

Sanandaj

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, Kurdistan 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

Kurdistan University of medical Sciences

Full name of responsible person

Karim Nasser

Position

Anesthesiologist / Associate Professor

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