Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Sep 2026

A comparison between the effectiveness of 2% lidocaine injection into endotracheal tube and the normal method on the incidence of cough and laryngospasm in patients candidating cataract surgery

Protocol summary

Summary

The goal of this double blind randomized clinical trial was to determine the effect of lidocaine injection into endotracheal tube before extubation in decrease of incidence of cough and laryngospasm compared to normal method. Inclusion criteria: Patients candidating cataract surgery; who were group in class I and II based on the classification of the American Society of Anesthesiology. Exclusion criteria: Chronic obstructive pulmonary disease The study was performed on patients referred to Valiasr hospital for cataract surgery . Totally, 96 patients older than 20 years were selected based on Inclusion criteria and randomly divided into two 48 patint groups (control and test groups(. In test group 100 mg (5ml) of lidocaine 2% and in control group the same volume of placebo (normal saline) was injected into endotracheal tube. The number of coughs and laryngospasm assessed recorded and compared in three periods.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201406026808N5**
Registration date: **2014-07-10, 1393/04/19**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2014-07-10, 1393/04/19

Registrant information

Name

Maryam Tolyat

Name of organization / entity

Mashhad University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Birjand University of Medical Sciences

Expected recruitment start date

2012-12-15, 1391/09/25

Expected recruitment end date

2013-06-15, 1392/03/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

A comparison between the effectiveness of 2% lidocaine injection into endotracheal tube and the normal method on the incidence of cough and laryngospasm in patients candidating cataract surgery

Public title

Effect of lidocaine injection into endotracheal tube on incidence of cough and laryngospasm in patients candidating cataract surgery

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria : Candidate cataract surgery; class I and II based on the classification of the American Society of Anesthesiology Exclusion criteria : Chronic obstructive

pulmonary disease

Age

From **20 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **96**

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

Birjand University of Medical Sciences

Street address

Birjand University of Medical Sciences, Birjand, Jonoubi Khorasan, Iran

City

Birjand

Postal code

Approval date

2011-02-03, 1389/11/14

Ethics committee reference number

447

Health conditions studied

1

Description of health condition studied

cataract

ICD-10 code

H25.0

ICD-10 code description

Senile incipient cataract

Primary outcomes

1

Description

cough

Timepoint

In two states :after extubation at surgery room and recovery room

Method of measurement

without cough, moderate cough, including one to five coughs and severe cough, including more than five cough

Secondary outcomes

1

Description

laryngospasm

Timepoint

In two states:after extubation at surgery room and recovery room

Method of measurement

The presence of laryngospasm

Intervention groups

1

Description

In test group: 100 mg (5ml) of lidocaine 2% was injected into endotracheal tube

Category

Treatment - Drugs

2

Description

In control group (5ml) same volume of placebo (normal saline) was injected into endotracheal tube

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Valiasr Hospital

Full name of responsible person

Street address

City

Birjand

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Birjand University of Medical Sciences

Full name of responsible person

Zangoue

Street address

Birjand University of Medical Sciences, Ghafarie Street, Birjand, Jonoubi khorasan, Iran

City

Birjand

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Birjand 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

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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