

Clinical Trial Protocol

Iranian Registry of Clinical Trials

04 Jun 2026

Comparison of lidocaine and dexamethasone on gargle on pre-operative sore throat and coughing after extubation

Protocol summary

Summary

Sore throat and cough are common complications after general anesthesia. This study has been designed to determine the effect of lidocaine gargle and dexamethasone gargle on the sore throat and cough after surgery caused by endotracheal intubation. 120 patients were randomly allocated into 3 groups. First group gargle 10cc Lidocaine 1% and second group gargle 10cc normal saline with one dexamethasone ampule and third group gargle 10cc normal saline five minutes before induction of anesthesia for 10 seconds. The patients were examined for sore throat (none, mild, moderate, or severe) each 6 h to 24 hours after extubation. Occurrence of cough, laryngospasm were continuously monitored and recorded during the observational period.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014122020336N2**

Registration date: **2015-03-04, 1393/12/13**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2015-03-04, 1393/12/13

Registrant information

Name

Ahmad Mirzaee

Name of organization / entity

Gonabad University of Medical Sciences

Country

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Email address

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Gonabad University of Medical Sciences

Expected recruitment start date

2015-04-05, 1394/01/16

Expected recruitment end date

2016-04-05, 1395/01/17

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of lidocaine and dexamethasone on gargle on pre-operative sore throat and coughing after extubation

Public title

Comparison of lidocaine and dexamethasone on gargle for sore throat and cough caused by general anesthesia.

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: ASA physical status I to II; aged 18 to 80 years; surgical procedures under general anesthesia with orotracheal intubation in the supine position; not using corticosteroids and analgesics before operation. exclusion criteria: patients undergoing oral cavity surgery; cervical spine surgery; thyroid surgery; patients with a difficult airway (after >2 orotracheal intubation attempt. requiring a nasogastric tube; or a history of perioperative sore throat. Patients with operation time less than 60 minute and more than 180 minutes

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: **120**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Triple blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Gonabad University of Medical Sciences.

Street address

The next of Asian road, Gonabad University of Medical Sciences

City

Gonabad

Postal code

Approval date

2014-03-12, 1392/12/21

Ethics committee reference number

GMU.REC.1392.51

Health conditions studied

1

Description of health condition studied

Sore throat

ICD-10 code

J02.9

ICD-10 code description

Acute pharyngitis

Primary outcomes

1

Description

Sore throat

Timepoint

In the recovery room after full consciousness, 6 h, 12 h and 18 h after surgery

Method of measurement

Questionnaire

Secondary outcomes

1

Description

Cough

Timepoint

In the recovery room after full consciousness, 6 h, 12 h and 18 h after surgery

Method of measurement

Questionnaire

Intervention groups

1

Description

In the second group of 10 cc of distilled water for 10 seconds, gargle with dexamethasone in the sitting position

Category

Prevention

2

Description

The first group of patients in a sitting position for 10 seconds to 10 cc of 1% lidocaine gargle

Category

Prevention

3

Description

In the third group, 10 mL of saline gargle for 10 seconds in a sitting position

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Hospital of 15 Bidokht

Full name of responsible person

Ahmad Mirzaee

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The next of Asian road, Gonabad University of Medical Sciences

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Gonabad University of Medical Sciences

Full name of responsible person

Dr. Ali Mohammadpour

Street address

The next of Asian road, Gonabad University of Medical Sciences

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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, Gonabad 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**

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Ahmad Mirzaee

Position

Student of Anesthesiology

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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