

# 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

Iran (Islamic Republic of)

##### Phone

+98 51 5722 3514

##### Email address

mirzaee.a@gmu.ac.ir

##### 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

**Street address**

The next of Asian road, Gonabad University of Medical Sciences

**City**

Gonabad

## 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

**City**

Gonabad

**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**

Gonabad University of Medical Sciences

**Full name of responsible person**

Ahmad Mirzaee

**Position**

Student of Anesthesiology

**Other areas of specialty/work****Street address**

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## Person responsible for scientific inquiries

#### Contact

**Name of organization / entity**

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**Full name of responsible person**

Dr. Mohammad Taghi khodadadi

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## Person responsible for updating data

#### Contact

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**Full name of responsible person**

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**Other areas of specialty/work****Street address**

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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*