Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 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 into3 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. Occurance of cough, laryngospasm were continously 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

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Gonabad University of Medical Sciences
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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

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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