Clinical Trial Protocol
Iranian Registry of Clinical Trials

09 Jun 2026

Evaluation of the effect of dextromethorphan gargling on postoperative quality of recovery and analgesia after endo ultrasonography procedure in scopy ward

Protocol summary

Study aim
Evaluation of the effect of dextromethorphan gargling on postoperative quality of recovery and analgesia after endo ultrasonography procedure in scopy ward

Design
Clinical trial with control group, single-blind, randomized, phase 2 on 60 patients. Randomizer softwere was used for randomization.

Settings and conduct
Candidate patients for endosonography admitted to the scopy ward of Imam Reza Hospital are included in the study and are divided into two groups. The first group gargle dextromethorphan, the second group are sprayed lidocaine into their throats. The researcher and statistical analyzer did not notice the study groups. Finally, the information is evaluated for improvement in recovery and reduction of pain.

Participants/Inclusion and exclusion criteria
Inclusion criteria: Candidate patients for endosonography, age 188 to 65 years, ASA groups 1 and 2 Exclusion criteria: Cardiovascular disease, history of depression, pregnant women

Intervention groups
Patients are divided into two groups. The first group gargle dextromethorphan, the second group are sprayed lidocaine into their throats.

Main outcome variables
Recovery quality; Pain reduce

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20200612047740N5**
Registration date: **2022-06-23, 1401/04/02**
Registration timing: **prospective**
Last update: **2022-06-23, 1401/04/02**
Update count: **0**

Registration date
2022-06-23, 1401/04/02

Registrant information

Name
Hossein Naderi

Name of organization / entity

Country
Iran (Islamic Republic of)

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Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2022-07-22, 1401/04/31

Expected recruitment end date
2022-11-20, 1401/08/29

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
Evaluation of the effect of dextromethorphan gargling on postoperative quality of recovery and analgesia after endo ultrasonography procedure in scopy ward

Public title
The effect of dextromethorphan gargling on improving the quality of recovery after endosonography

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Candidate patients for endosonography ASA 1 AND 2 Age 18 to 65 years

Exclusion criteria:

Cardiovascular disease History of depression Pregnant women Addiction

Age

From **18 years** old to **65 years** old

Gender

Both

Phase

N/A

Groups that have been masked

- Investigator
- Data analyser

Sample size

Target sample size: **30**

Randomization (investigator's opinion)

Randomized

Randomization description

Patients are randomly assigned to the groups of A and B using Randomization software (https://www.randomizer.org/) according to inclusion criteria. Each group has 30 members. In this software, numbers from 1 to 60 are entered into the software and at one time, they randomly pick the numbers from 1 to 60 so that the number of people in each group is equal. The numbers remain hidden and the order in which people enter the study is revealed in the order in which the data output software is displayed, and if the number is between 1 and 30, it is placed in the first group and if it is between 31 and 60, it is placed in the second group.

Blinding (investigator's opinion)

Single blinded

Blinding description

Patients are divided into two groups A and B and are kept in two separate parts. How to do the study for each group is described. The information is collected by the clinical caregiver and the researcher and data analyzer do not know the patient group and after analyzing the data, the codes are decoded to avoid bias.

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of AJA University of Medical

Street address

AJA university of medical sciences, Shahid Etemadzade st, West Fatemi st

City

Tehran

Province

Tehran

Postal code

1411718541

Approval date

2022-06-19, 1401/03/29

Ethics committee reference number

IR.AJAUMS.REC.1401.020

Health conditions studied

1

Description of health condition studied

Pain after endosonography

ICD-10 code

G89.18

ICD-10 code description

Other acute postprocedural pain

Primary outcomes

1

Description

Severity of sore throat

Timepoint

After transfer to recovery

Method of measurement

visual analogue scale

2

Description

Satisfaction of operation

Timepoint

After transfer to recovery

Method of measurement

Numeric Pain Rating Scale

3

Description

Pain free period

Timepoint

From the time a person enters recovery to the time they feel pain in the throat

Method of measurement

Ask and record

Secondary outcomes

1

Description

Frequency of nausea and vomiting

Timepoint

After transfer to recovery

Method of measurement

View and record

2

Description

Frequency of cough

Timepoint

After transfer to recovery

Method of measurement

View and record

Intervention groups

1

Description

Intervention group: Patients gargle dextromethorphan for one minute before endosonography and endosonography is performed for them. After finishing the work and transferring them to recovery, the quality of recovery and the amount of sore throat are evaluated.

Category

Prevention

2

Description

Control group: Patients are sprayed 3 puffs of lidocaine on the back of their throats before endoscopy , then endosonography is performed for them. After finishing the work and transferring them to recovery, the quality of recovery and the amount of sore throat are evaluated.

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Reza hospital

Full name of responsible person

Mohammadreza Rafiee

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Shahid Etemadzade st, West Fatemi

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Artesh University of Medical Sciences

Full name of responsible person

Dr Mojtaba Yousefi

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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

Artesh University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Esfahan University of Medical Sciences

Full name of responsible person

Hossein Naderi

Position

Medical student

Latest degree

A Level or less

Other areas of specialty/work

Anesthesiology

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Sharing plan

Deidentified Individual Participant Data Set (IPD)
Yes - There is a plan to make this available
Study Protocol
No - There is not a plan to make this available
Statistical Analysis Plan
No - There is not a plan to make this available
Informed Consent Form
No - There is not a plan to make this available
Clinical Study Report
Undecided - It is not yet known if there will be a plan to make this available
Analytic Code
No - There is not a plan to make this available
Data Dictionary
Not applicable
Title and more details about the data/document
Only registered symptoms can be published without mentioning the names of the participants
When the data will become available and for how long
Start of access period 6 months after printing the results up to one year after printing
To whom data/document is available
Only available to scholars working in academia and academia
Under which criteria data/document could be used
Written request via email(hossein.naderi1374@gmail.com) and university approval
From where data/document is obtainable
By contacting the corresponding author
What processes are involved for a request to access data/document
After the email is received by the applicant, it takes one week to agree The university will be obtained and then will be notified to the requestor. Maximum of this process takes ten days.
Comments