

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

13 Jun 2026

### The effect of intravenous lidocaine on sore throat, myalgia and Fasciolasion induced by succinylcholine in appendectomy surgery.

#### Protocol summary

##### Study aim

The effect of intravenous lidocaine on sore throat, myalgia and fasciculation induced by succinylcholine in patients undergoing appendectomy

##### Design

This double blind, randomized, study with Parallel groups will be conducted on 90 patients undergoing appendectomy Patients will be randomly assigned to two groups by throwing the coins. The first intervention group will receive lidocaine 2% intravenously with a dose of 1.5 mg / kg. The second intervention group: As a control group, will receive normal saline solution at 0.075 ml / kg.

##### Settings and conduct

This randomized study will be carried out in patients undergoing appendectomy referring to Shahid Mohammadi Hospital in Bandar Abbas. Patients who have criteria for entering the study by throwing the coin will be divided into two groups and the rate of fasciculation , sore throat and myalgia in two groups Will be measured.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: People aged 15 to 70 years, people undergoing appendectomy surgery. exclusion criteria: Individuals with musculoskeletal disorders, increased intracranial pressure, increased intraocular pressure

##### Intervention groups

First intervention group: will receive Lidocaine2% at dose of 1.5 mg / kg. The second intervention group: As a control group, will receive normal saline solution at 0.075 ml / kg.

##### Main outcome variables

The rate of fasciculation , Severity of sore throat and Severity of myalgia

#### General information

##### Reason for update

##### Acronym

#### IRCT registration information

IRCT registration number: **IRCT20190528043737N1**

Registration date: **2019-10-06, 1398/07/14**

Registration timing: **registered\_while\_recruiting**

Last update: **2019-10-06, 1398/07/14**

Update count: **0**

#### Registration date

2019-10-06, 1398/07/14

#### Registrant information

##### Name

Mehrdad Malekshoar

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 76 3333 3280

##### Email address

mehrdad.malekshoar@hums.ac.ir

#### Recruitment status

**Recruitment complete**

#### Funding source

#### Expected recruitment start date

2017-10-10, 1396/07/18

#### Expected recruitment end date

2019-11-10, 1398/08/19

#### Actual recruitment start date

empty

#### Actual recruitment end date

empty

#### Trial completion date

empty

#### Scientific title

The effect of intravenous lidocaine on sore throat, myalgia and Fasciolasion induced by succinylcholine in appendectomy surgery.

**Public title**

effect of intravenous lidocaine on sore throat induced by succinylcholine

**Purpose**

Treatment

**Inclusion/Exclusion criteria****Inclusion criteria:**

appendectomy surgery.

**Exclusion criteria:**

Musculoskeletal disorders increased intracranial pressure increased intraocular pressure history of malignant hyperthermia Lidocaine susceptibility Hyperkalemia

**Age**

From **15 years** old to **75 years** old

**Gender**

Both

**Phase**

3

**Groups that have been masked**

- Participant
- Investigator

**Sample size**

Target sample size: **90**

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

The participants in the present study will be divided into two intervention and control groups by throwing coins.

**Blinding (investigator's opinion)**

Single blinded

**Blinding description**

In the present study, participants in the study were unaware of which individuals were in the group.

**Placebo**

Used

**Assignment**

Parallel

**Other design features****Secondary Ids**

empty

**Ethics committees****1****Ethics committee****Name of ethics committee**

Ethics committee of Hormozgan University of Medical Sciences

**Street address**

Bandar Abbas Shahid Chamran Blvd.

**City**

Hormozgan

**Province**

Hormozgan

**Postal code**

7914964157

**Approval date**

2016-12-26, 1395/10/06

**Ethics committee reference number**

HUMS.REC.039

**Health conditions studied****1****Description of health condition studied**

Appendicitis

**ICD-10 code**

K35.80

**ICD-10 code description**

Unspecified acute appendicitis

**Primary outcomes****1****Description**

The severity of the fasciculation

**Timepoint**

Immediately after injection of succinylcholine

**Method of measurement**

Under the Mings Crypt

**2****Description**

The severity of the sore throats

**Timepoint**

24 hours after surgery

**Method of measurement**

By asking the patient in relation to throat pain

**3****Description**

Severity of myalgia

**Timepoint**

24 hours after surgery

**Method of measurement**

Based on the Harvey criterion

**Secondary outcomes****1****Description**

Changes in blood pressure

**Timepoint**

Before, immediately after the intubation, 5, 10, 15 minutes after the operation, and during the operation at 10-minute intervals

**Method of measurement**

Using the blood pressure device

**Intervention groups**

## 1

### Description

Intervention group: : will receive Lidocaine 2% at dose of 1.5 mg / kg

### Category

Treatment - Drugs

## 2

### Description

Control group: will receive normal saline solution at 0.075 ml / kg

### Category

Placebo

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Shahid Mohammadi Hospital

##### Full name of responsible person

Mehrdad Malek Shoar

##### Street address

Bandar Abbas Shahid Chamran Blvd.

##### City

Bandar Abbas

##### Province

Hormozgan

##### Postal code

7914964157

##### Phone

+98 76 3333 3280

##### Email

mdmalekshoar@yahoo.com

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Bandare-abbas University of Medical Sciences

##### Full name of responsible person

Mehrdad Malek Shoar

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Bandar Abbas Shahid Chamran Blvd.

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##### Province

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##### Email

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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

Bandare-abbas 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

Bandare-abbas University of Medical Sciences

##### Full name of responsible person

Mehrdad Malek Shoar

##### Position

Assistant professor

##### Latest degree

Specialist

##### Other areas of specialty/work

Anesthesiology

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## Person responsible for scientific inquiries

#### Contact

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**Sharing plan****Deidentified Individual Participant Data Set (IPD)**

Undecided - It is not yet known if there will be a plan to make this available

**Study Protocol**

Undecided - It is not yet known if there will be a plan to make this available

**Statistical Analysis Plan**

Undecided - It is not yet known if there will be a plan to make this available

**Informed Consent Form**

Undecided - It is not yet known if there will be 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**

Undecided - It is not yet known if there will be a plan to make this available

**Data Dictionary**

Undecided - It is not yet known if there will be a plan to make this available