

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

28 May 2026

### Comparison of diphenhydramine and placebo on the side effect of tonsillectomy

#### Protocol summary

##### Study aim

Comparison of diphenhydramine and placebo on the side effect of tonsillectomy

##### Design

Clinical trial with control group, with parallel groups, single-blind, randomized, phase 3 on 66 patients. The random number table was used for randomization.

##### Settings and conduct

This study is being performed at Valiasr Hospital in Birjand, South Khorasan Province. Sixty-six patients were randomly assigned to two groups: adenotonsillectomy surgery receiving diphenhydramine and normal saline. Then, the amount of pain in patients in two groups at 0, 24, 12, 6 hours after surgery, postoperative complications in patients including: the amount of bleeding during and after surgery; The duration of hospitalization in the ward will be nausea and vomiting, which will be examined by the nurse after the operation and one day after the operation without the patient's knowledge of the type of medication received.

##### Participants/Inclusion and exclusion criteria

patients who were candidates for adenotonsillectomy surgery at Valiasr Hospital in Birjand in 1399. Inclusion criteria: ages 5 to 50 years, patients with ASA class 1 and 2, no history of liver or kidney disease, no disease: bronchial asthma, bladder disease, no pregnancy and lactation, no gestational hypertension or preeclampsia. Exclusion criteria; patient withdrawal, coagulation disorders, concomitant surgery with other oral and pharyngeal problems, known allergic reactions to antihistamines, benzodiazepines, or local anesthetics, and acute laryngeal infection.

##### Intervention groups

Patients were randomly assigned to adenotomectomy with two groups receiving diphenhydramine as an anesthetic in the tonsil bed at a dose of 1.25 mg / kg up to a maximum of 8 mg 5 minutes before surgery and patients in the normal saline control group with the same volume in bed. The tonsils will be injected.

#### Main outcome variables

Pain, nausea, vomiting, sore throat.

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20190618043934N5**

Registration date: **2020-07-04, 1399/04/14**

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

Last update: **2020-07-04, 1399/04/14**

Update count: **0**

##### Registration date

2020-07-04, 1399/04/14

##### Registrant information

##### Name

Zabihullah Mohaghegh

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 56 3232 3232

##### Email address

oabstudent@gmail.com

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2020-06-19, 1399/03/30

##### Expected recruitment end date

2020-07-20, 1399/04/30

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

**Trial completion date**

empty

**Scientific title**

Comparison of diphenhydramine and placebo on the side effect of tonsillectomy

**Public title**

The effect of diphenhydramine on adenotonsillectomy

**Purpose**

Treatment

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

Age between 5 and 50 years Patients with ASA classes 1 and 2 No history of liver disease Lack of bronchial asthma Lack of bladder disease No pregnancy and lactation Lack of blood pressure during pregnancy or preeclampsia No history of kidney disease

**Exclusion criteria:**

Coagulation disorder Simultaneous surgery of the patient with other oral and pharyngeal problems Allergic reactions known to antihistamines Allergic reactions known to benzodiazepines or topical anesthetics Having an acute pharyngeal infection

**Age**

From **5 years** old to **50 years** old

**Gender**

Both

**Phase**

3

**Groups that have been masked**

- Outcome assessor

**Sample size**

Target sample size: **66**

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

Participants in the study will be randomly divided into intervention and control groups using a random number table.

**Blinding (investigator's opinion)**

Single blinded

**Blinding description**

Assessor of the outcome (nurse) without knowing the placement of the individual in the study group

**Placebo**

Not used

**Assignment**

Parallel

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

empty

**Ethics committees****1****Ethics committee**

**Name of ethics committee**

Ethics Committee of Birjand University of Medical Sciences

**Street address**

Moallem BLV

**City**

Birjand

**Province**

South Khorasan

**Postal code**

9717811674

**Approval date**

2020-06-10, 1399/03/21

**Ethics committee reference number**

IR.BUMS.REC.1399.071

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

Tonsillitis

**ICD-10 code**

J03

**ICD-10 code description**

Acute tonsillitis

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

Pain

**Timepoint**

0, 6, 12 and 24 hours after surgery

**Method of measurement**

Using the VAS Scale

**Secondary outcomes**

empty

**Intervention groups****1****Description**

Intervention group: Patients taking diphenhydramine as an anesthetic in the tonsil bed receive 1.25 mg / kg up to a maximum of 8 mg 5 minutes before surgery.

**Category**

Treatment - Drugs

**2****Description**

Control group: Normal saline patients receive the same amount of diphenhydramine in the tonsil bed 5 minutes before surgery.

**Category**

Placebo

## Recruitment centers

1

### Recruitment center

**Name of recruitment center**  
Valie-asr Hospital\_Birjand  
**Full name of responsible person**  
Nastaran Jalili  
**Street address**  
Moallem Str  
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oabstudent@gmail.com

## Sponsors / Funding sources

1

### Sponsor

**Name of organization / entity**  
Birjand University of Medical Sciences  
**Full name of responsible person**  
Dr. Tooba Kazemi  
**Street address**  
Ghaffari Str  
**City**  
Birjand  
**Province**  
South Khorasan  
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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**  
Birjand 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**  
Birjand University of Medical Sciences  
**Full name of responsible person**  
Zabihullah Mohaghegh  
**Position**  
Student  
**Latest degree**  
Bachelor  
**Other areas of specialty/work**  
General Practitioner  
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## Person responsible for scientific inquiries

### Contact

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**Full name of responsible person**  
Dr MohammadReza Mofatteh  
**Position**  
Member of the Faculty  
**Latest degree**  
Specialist  
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Ear, Nose, and Throat  
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## Person responsible for updating data

### Contact

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**Full name of responsible person**  
Zabihullah Mohaghegh  
**Position**  
Student

**Latest degree**

Bachelor

**Other areas of specialty/work**

General Practitioner

**Street address**

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**Postal code**

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**Phone**

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**Email**

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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