

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

11 Sep 2026

### Effect of topical timolol on recurrent epistaxis: a clinical trial

#### Protocol summary

##### Study aim

Determining the effectiveness of timolol nasal spray in frequent epistaxis patients

##### Design

The clinical trial has a control group, with parallel groups, double-blind, randomized, phase 3 on 35 patients in each group, making a total of 70 patients. Random assignment by card was used for randomization.

##### Settings and conduct

This study will be conducted in 2024 and 2025 at Al-Zahra Hospital in Isfahan under the supervision of Isfahan University of Medical Sciences. People participating in this study will be divided into 2 groups. In this study, the patient and the statistician are not aware of the grouping of patients.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: History of recurrent epistaxis with at least 4 episodes in the last four weeks and at least one episode in the last week; Exclusion criteria: Pregnancy and breastfeeding; asthma or chronic lung disease; coagulation problems like hemophilia; hypotension; heart failure; bradycardia; pheochromocytoma or severe peripheral circulatory disorders; Receiving calcium antagonists or antiarrhythmics or clonidine, lidocaine; beta blockers fluctafenine, sultopride or amiodarone; anticoagulants; timolol sensitivity; Nose surgery in the last month

##### Intervention groups

People participating in this study will be divided into 2 groups. The first group as an intervention group will be treated with half percent timolol nasal spray made by Raha Pharmaceutical Company and the second group will be treated with placebo made by the Faculty of Pharmacy. The method of treatment in both groups will be similar and 2 times a day for 4 weeks.

##### Main outcome variables

Epistaxis

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20240327061371N1**

Registration date: **2025-03-02, 1403/12/12**

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

Last update: **2025-03-02, 1403/12/12**

Update count: **0**

##### Registration date

2025-03-02, 1403/12/12

##### Registrant information

##### Name

Afrooz Eshaghian

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 31 3233 0092

##### Email address

afroozeshaghian@med.mui.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2024-10-31, 1403/08/10

##### Expected recruitment end date

2025-03-20, 1403/12/30

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Effect of topical timolol on recurrent epistaxis: a clinical



## Intervention groups

### 1

#### Description

Intervention group: half percent timolol nasal spray manufactured by Raha Pharmaceutical Company, one puff in each nostril twice a day for 4 weeks.

#### Category

Treatment - Drugs

### 2

#### Description

Control group: Normal saline nasal spray made by Faculty of Pharmacy, one puff in each nostril twice a day for 4 weeks.

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Alzahra hospital

##### Full name of responsible person

Atefeh Sharifi

##### Street address

Alzahra hospital, Hezarjarib street

##### City

Isfahan

##### Province

Isfahan

##### Postal code

75731-81746

##### Phone

+98 31 3822 0000

##### Email

sharifiatefeh7@gmail.com

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Esfahan University of Medical Sciences

##### Full name of responsible person

Gholamreza Asgari

##### Street address

Esfahan University of Medical Sciences, Hezarjarib Street

##### City

اصفهان

##### Province

Isfahan

##### Postal code

8174675731

##### Phone

+98 31 3668 7898

#### Email

research@mui.ac.ir

#### Grant name

#### Grant code / Reference number

#### Is the source of funding the same sponsor organization/entity?

Yes

#### Title of funding source

Esfahan 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

Afroz Eshaghian

##### Position

Assistant professor

##### Latest degree

Specialist

##### Other areas of specialty/work

Ear, Nose, and Throat

##### Street address

Kashani Hospital, Kashani St.

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##### Province

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۸۱۸۳۹۸۳۴۳۴

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+98 31 3233 0091

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## Person responsible for scientific inquiries

#### Contact

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assistant Professor

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## Person responsible for updating data

### Contact

**Name of organization / entity**  
Esfahan University of Medical Sciences  
**Full name of responsible person**  
Afrooz Eshaghian  
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Assistant Professor  
**Latest degree**  
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afroozeshaghian@gmail.com

## Sharing plan

### Deidentified Individual Participant Data Set (IPD)

No - There is not a plan to make this available

### Justification/reason for indecision/not sharing IPD

No more information

### 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

No - There is not a plan to make this available

### Analytic Code

No - There is not a plan to make this available

### Data Dictionary

No - There is not a plan to make this available