

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

27 May 2026

### Evaluation of the effect of topical aminophylline in hyposmic and anosmic patients referred to the ENT clinic in Firoozgar hospital in 2020-2021

#### Protocol summary

##### Study aim

Determining the effect of aminophylline drops in hyposmic and anosmic patients referred to ENT clinic in Firoozgar hospital.

##### Design

Phase 3 randomized, parallel group trial with blinded outcome assessment of 40 patient.

##### Settings and conduct

In this clinical trial that was performed on 40 patients with severe hyposmia or anosmia, patients were randomized into two groups of case and placebo. In the olfactory center of the ENT department of Firoozgar hospital, the case group was given aminophylline drops over a three-month period with olfactory training. The control group was given normal saline drops with olfactory training over a three-month period.

##### Participants/Inclusion and exclusion criteria

Patient with diagnosis of post viral hyposmia or anosmia, the course of olfactory dysfunction was > 6 months enter the study, and those with facial trauma, patients with nasal polyps, and those with a history of aminophylline and theophylline allergies are excluded.

##### Intervention groups

The case group was given aminophylline drops over three months. The control group was given normal saline drops with olfactory training over three months.

##### Main outcome variables

Olfactory status (hyposmia, anosmia), olfactory capacity

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20220104053625N1**

Registration date: **2022-01-10, 1400/10/20**

Registration timing: **prospective**

Last update: **2022-01-10, 1400/10/20**

Update count: **0**

##### Registration date

2022-01-10, 1400/10/20

##### Registrant information

###### Name

Pardis Rahimi

###### Name of organization / entity

###### Country

Iran (Islamic Republic of)

###### Phone

+98 21 6637 2369

###### Email address

pardiss.rahimi@gmail.com

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2022-02-07, 1400/11/18

##### Expected recruitment end date

2022-02-19, 1400/11/30

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Evaluation of the effect of topical aminophylline in hyposmic and anosmic patients referred to the ENT clinic in Firoozgar hospital in 2020-2021

##### Public title

Evaluation of the effect of topical aminophylline in hyposmic and anosmic patients

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

**Inclusion criteria:**

patients older than 18 years diagnosis of post viral hyposmia or anosmia, the course of olfactory dysfunction was > 6 months signing the written informed consent to participate study

**Exclusion criteria:**

lack of proper compliance to the prescribed drugs history of nasal or skull base surgeries, history of nasal polyps, history of facial or nasal trauma allergies to aminophylline or theophylline consumption of other drugs.

**Age**

From **18 years** old

**Gender**

Both

**Phase**

3

**Groups that have been masked**

- Participant
- Care provider
- Investigator
- Outcome assessor
- Data analyser

**Sample size**

Target sample size: **40**

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

Patients are divided into two groups A and B by simple randomization method (using flip the coin method), In this way, the third person out of the study, based on the coin toss 40 times, classifies the milk patients in group A and the line in group B and is placed in a non-transparent closed envelope. Each participant is then given an envelope in order of reference. The third person throwing the coin does not know the drugs used in the groups and how the A.B. is divided. Random allocation: Deciding whether to accept or reject a company The study was first based on olfactory score and informed consent form by participants Is completed and then the participants to each The groups are randomly assigned and have no knowledge of the drugs in each group. People who work at the patient distribution center have no knowledge of our research.

**Blinding (investigator's opinion)**

Double blinded

**Blinding description**

Participating patients did not know the contents of the drops. The third person, independent of the research team, encodes the drops containing the drug and the placebo. As a result, the person who delivers the drops and the person who collects the information have no information about the study group. The person analyzing the data also has no knowledge of the relevant coding.

**Placebo**

Used

**Assignment**

Parallel

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

empty

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

Ethics Committee of Iran University of Medical Sciences

**Street address**

Rasool akram Hospital., Niayesh Ave., Sattarkhan Ave., Tehran Town

**City**

Tehran

**Province**

Tehran

**Postal code**

1345617615

**Approval date**

2020-02-04, 1398/11/15

**Ethics committee reference number**

IR.IUMS.FMD.REC.1398.477

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

Patient with Post viral hyposmia

**ICD-10 code**

R43.0

**ICD-10 code description**

Anosmia

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

Patients' olfactory level

**Timepoint**

Before the intervention and three months after taking the drops

**Method of measurement**

SIT (smell identification test)

**Secondary outcomes**

empty

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

Intervention group: Aminophylline drops (using the contents of the vial aminophylline in the form of nasal drops, 250 micrograms daily) ,8 drops were used daily on each side of the nose in a head down and back position

for 3 month with olfactory training. Olfactory training was performed using four reagents with different odors, including rose, eucalyptus, lemon, and cloves. Each odorant was smelled for 10s/time, and the interval between two odorants was 10s. the training frequency was one time before breakfast and one time before sleep everyday , for 3 months.

**Category**

Treatment - Drugs

**2****Description**

Control group: given normal saline drops with olfactory training over a three-month period.8 drops were used daily on each side of the nose with olfactory training

**Category**

Placebo

**Recruitment centers****1****Recruitment center****Name of recruitment center**

Firoozgar hospital

**Full name of responsible person**

Paris Rahimi

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Firoozgar hospital., Valiasr Ave., Tehran Town

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Pardiss.rahimi@gmail.com

**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Iran University of Medical Sciences

**Full name of responsible person**

Vice President for Research and Technology

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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**

Iran 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**

Iran University of Medical Sciences

**Full name of responsible person**

Pardis Rahimi

**Position**

Resident

**Latest degree**

Medical doctor

**Other areas of specialty/work**

Ear, Nose, and Throat

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**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Iran University of Medical Sciences

**Full name of responsible person**

Hesam Jahandideh Sabet

**Position**

Associate professor

**Latest degree**

Subspecialist

**Other areas of specialty/work**

Ear, Nose, and Throat

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## Person responsible for updating data

### Contact

**Name of organization / entity**  
Iran University of Medical Sciences  
**Full name of responsible person**  
Pardis Rahimi  
**Position**  
Resident  
**Latest degree**  
Medical doctor  
**Other areas of specialty/work**  
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No. 10, Emam Ali Ave., Azarbaijan Ave., Tehran Town  
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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

Yes - There is a plan to make this available

### Statistical Analysis Plan

Yes - There is a plan to make this available

### Informed Consent Form

Yes - There is a plan to make this available

### Clinical Study Report

Yes - There is a plan to make this available

### Analytic Code

Yes - There is a plan to make this available

### Data Dictionary

Not applicable

### Title and more details about the data/document

All data can be shared

### When the data will become available and for how long

Start of access period 5 months after printing the results

### To whom data/document is available

Researchers working in academic institutions and science

### Under which criteria data/document could be used

Research works that have a code of ethics from medical universities are allowed

### From where data/document is obtainable

Firoozgar hospital., Tehran E-mail :  
Pardiss.rahimi@gmail.com

### What processes are involved for a request to access data/document

An email will be sent to the mentioned mailing address as a data requirement, it will be answered within 5 working days

### Comments