

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

09 Jun 2026

### Effect of Sublingual Atropine on Sialorrhea Induced by Clozapine in Patients with Schizophrenia

#### Protocol summary

##### Study aim

Effect of sublingual atropine on sialorrhea induced by Clozapine in patients with schizophrenia

##### Design

A clinical trial with a control group, parallel groups, double-blind, randomized, phase 3 per 62 patients. Computer-generated random numbers will be used for randomization.

##### Settings and conduct

This study was designed to investigate the effect of sublingual atropine administration on sialorrhea caused by clozapine in patients with schizophrenia who referred to Qods Hospital in Sanandaj. After dividing the patients into two intervention and control groups two drops of atropine sulfate 1% It will be administered under the tongue in the intervention group or placebo in the control group. In order to blind the study, the patients, the physician and the evaluator of the patients are not aware of the grouping of the studied patients.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: Age 18 to 60 years; Diagnosed schizophrenia; Current use of Clozapine for treatment; Presence of drooling. Exclusion criteria: Pregnancy and breastfeeding; Cardiovascular problems (arrhythmia, blood pressure, etc.); History of taking other anticholinergics.

##### Intervention groups

After washing and cleaning the mouth, two drops of atropine sulfate 1% in the intervention group or placebo in the control group will be administered under the tongue, for 4 weeks and every night 1 hour before going to sleep.

##### Main outcome variables

sialorrhea (drooling)

#### General information

##### Reason for update

##### Acronym

#### IRCT registration information

IRCT registration number: **IRCT20221101056373N1**

Registration date: **2022-11-12, 1401/08/21**

Registration timing: **prospective**

Last update: **2022-11-12, 1401/08/21**

Update count: **0**

#### Registration date

2022-11-12, 1401/08/21

#### Registrant information

##### Name

Sima Sardari

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 87 3366 0025

##### Email address

sima\_sardari83@yahoo.com

#### Recruitment status

**Recruitment complete**

#### Funding source

#### Expected recruitment start date

2022-12-22, 1401/10/01

#### Expected recruitment end date

2023-12-22, 1402/10/01

#### Actual recruitment start date

empty

#### Actual recruitment end date

empty

#### Trial completion date

empty

#### Scientific title

Effect of Sublingual Atropine on Sialorrhea Induced by Clozapine in Patients with Schizophrenia

#### Public title

Effect of Sublingual Atropine on Sialorrhea Induced by Clozapine

### Purpose

Treatment

### Inclusion/Exclusion criteria

#### Inclusion criteria:

Age 18 to 60 years Diagnosed schizophrenia Current use of Clozapine for treatment Presence of drooling

#### Exclusion criteria:

Pregnancy and breastfeeding Cardiovascular problems (arrhythmia, blood pressure, etc.) History of taking other anticholinergics

### Age

From **18 years** old to **60 years** old

### Gender

Both

### Phase

3

### Groups that have been masked

- Participant
- Care provider
- Investigator
- Outcome assessor

### Sample size

Target sample size: **62**

### Randomization (investigator's opinion)

Randomized

### Randomization description

Sampling will be done randomly using computer generated random numbers. Thus, each "odd number" produced belongs to group 1 ( intervention group) and each randomly generated "even number" belongs to group 2 (patient placement in the control group)

### Blinding (investigator's opinion)

Double blinded

### Blinding description

To blind the study, patients and their families do not know which of the intervention or control groups they are in. Also, the medicine and placebo are prepared in similar containers and in the same quantity, appearance and taste, and after coding by a psychiatric assistant, who does not know about the grouping, the drugs are prescribed. The final evaluation and summarization of the patients' findings will also be done by a psychiatric assistant who is not part of the group of study patients

### Placebo

Used

### Assignment

Parallel

### Other design features

## Secondary Ids

empty

## Ethics committees

### 1

Ethics committee

### Name of ethics committee

Research Ethics Committees of Kurdistan University of Medical Sciences

### Street address

Pasdaran Blvd

### City

Sanandaj

### Province

Kurdistan

### Postal code

6617913446

### Approval date

2022-09-21, 1401/06/30

### Ethics committee reference number

IR.MUK.REC.1401.226

## Health conditions studied

### 1

#### Description of health condition studied

Clozapin induced sialorrhea

#### ICD-10 code

#### ICD-10 code description

## Primary outcomes

### 1

#### Description

Sialorrhea

#### Timepoint

For 4 weeks and every night 1 hour before sleep

#### Method of measurement

Visual analogue scale and Drooling Rating Scale

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Intervention group: After washing and cleaning the mouth, for 4 weeks and every night 1% hour before sleeping, two drops of atropine sulfate will be administered under the tongue.

#### Category

Treatment - Drugs

### 2

#### Description

Control group: After washing and cleaning the mouth, for 4 weeks and every night 1 hour before sleeping, two drops of placebo will be administered under the tongue.

#### Category

Placebo

## Recruitment centers

1

### Recruitment center

**Name of recruitment center**

Qods Hospital

**Full name of responsible person**

Sima Sardari

**Street address**

Entezam Blvd, Pasdaran blvd

**City**

Sanandaj

**Province**

Kurdistan

**Postal code**

6617713141

**Phone**

+98 87 3366 0025

**Email**

qodshospital.sanandaj@gmail.com

## Sponsors / Funding sources

1

### Sponsor

**Name of organization / entity**

Sanandaj University of Medical Sciences

**Full name of responsible person**

Afshin Maleki

**Street address**

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Research@muk.ac.ir

**Grant name**

**Grant code / Reference number**

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

Yes

**Title of funding source**

Sanandaj 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**

Sanandaj University of Medical Sciences

**Full name of responsible person**

Narges Shams alizadeh

**Position**

Associate professor

**Latest degree**

Specialist

**Other areas of specialty/work**

Psychiatrics

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## Person responsible for scientific inquiries

### Contact

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**Position**

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**Latest degree**

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## Person responsible for updating data

### Contact

**Name of organization / entity**

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**Full name of responsible person**

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**Position**

Resident

**Latest degree**

Medical doctor

**Other areas of specialty/work**

Psychiatrics

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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**

Not applicable

**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**

Not applicable

**Data Dictionary**

Not applicable