

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

18 Jun 2026

### Studying the effect of acupuncture in the treatment of open-angle glaucoma in Mashhad city

#### Protocol summary

##### Summary

**Objective:** In this study we aim at investigating the role of acupuncture as a treatment modality with minimal side effects in primary open angle glaucoma (POAG).  
**Design:** In this quasi-experimental study 33 patients with primary open angle glaucoma visiting the glaucoma clinic are randomly selected and examined for eligibility.  
**Setting and conduct:** acupuncture treatment is performed for all participants and they also receive all required medications for glaucoma during the treatment course. Participants including major eligibility criteria: Over 18 years of age, confirmed primary open-angle glaucoma (POAG), willing to participate in the study.  
**Intervention:** acupuncture treatment is given 3 times a week for four weeks and the patients are followed up monthly up to three months. Needle insertion points are fixed in all sessions and are 11 points, bilaterally inserted (22 points). Intraocular pressure (IOP) measurement is performed in each visit. Main outcome variables: patients are followed up after one week and then monthly up to three months, undergoing all ophthalmologic examinations including IOP measurement for both eyes.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2015062911912N3**  
Registration date: **2015-12-01, 1394/09/10**  
Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

##### Registration date

2015-12-01, 1394/09/10

##### Registrant information

**Name**

Hamidreza Bahrami Taghanaki

##### Name of organization / entity

Mashhad University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 51 1841 5666

##### Email address

bahramihr@mums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Research Council of Mashhad University of Medical Sciences

##### Expected recruitment start date

2014-04-09, 1393/01/20

##### Expected recruitment end date

2015-12-31, 1394/10/10

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Studying the effect of acupuncture in the treatment of open-angle glaucoma in Mashhad city

##### Public title

Studying the effect of acupuncture in the treatment of glaucoma

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Major eligibility criteria: Over 18 years of age; confirmed primary open-angle glaucoma (POAG); willing to participate in the study Major exclusion criteria: suspected of having other types of glaucoma; history of ophthalmologic disease other than POAG such as corneal

ulcer, corneal scar, keratoconus, etc, history of eye surgery in the previous three months; any type of ocular or periocular infection or inflammation in the previous month; anticoagulant or antiplatelet medications use; intraocular pressure (IOP) more than 25mmHg despite conventional therapy at the inclusion time; severe or advanced POAG and history of any systemic disease influencing IOP.

**Age**

From **17 years** old

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

*No information*

**Sample size**

Target sample size: **33**

**Randomization (investigator's opinion)**

N/A

**Randomization description****Blinding (investigator's opinion)**

Not blinded

**Blinding description****Placebo**

Not used

**Assignment**

Single

**Other design features****Secondary Ids****1****Registry name**

None

**Secondary trial Id**

none

**Registration date**

empty

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

Ethics Committee of Mashhad University of Medical Sciences

**Street address**

Deputy of Research, GHoreyshi building, Daneshgah St.,

**City**

Mashhad

**Postal code****Approval date**

2014-01-15, 1392/10/25

**Ethics committee reference number**

920048

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

Primary open angle glaucoma

**ICD-10 code**

H40, H42

**ICD-10 code description**

Glaucoma, Glaucoma in diseases classified elsewhere

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

Intraocular pressure (IOP)

**Timepoint**

after one week and then monthly up to three months

**Method of measurement**

Goldmann applanation tonometer

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

Intraocular pressure of the right and left eye

**Timepoint**

after one week and then monthly up to three months

**Method of measurement**

Goldmann applanation tonometer

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

Intervention: acupuncture

**Category**

Treatment - Other

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

Acupuncture clinic of Imam Reza Hospital

**Full name of responsible person**

Hamidreza Bahrami

**Street address**

Acupuncture clinic, Imam Reza Hospital, Taghiabad Sq.

**City**

Mashhad

**Sponsors / Funding sources**

## 1

### Sponsor

**Name of organization / entity**

Vice Chancellor for Research, Mashhad University of Medical Sciences

**Full name of responsible person**

Mina Ramezani

**Street address**

Ghoreyshi Building, Daneshgah St.

**City**

Mashhad

**Grant name****Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

Vice Chancellor for Research, Mashhad University of Medical Sciences

**Proportion provided by this source**

100

**Public or private sector**

*empty*

**Domestic or foreign origin**

*empty*

**Category of foreign source of funding**

*empty*

**Country of origin****Type of organization providing the funding**

*empty*

### Person responsible for general inquiries

**Contact****Name of organization / entity**

Mashhad University of Medical Sciences

**Full name of responsible person**

Hamidreza Bahrami

**Position**

Assistant Prof of acupuncture

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Faculty of Traditional and Complementary Medicine

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### Person responsible for scientific inquiries

**Contact****Name of organization / entity**

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**Full name of responsible person**

Ramin Daneshvar Kakhki

**Position**

Assistant Prof of ophthalmology

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### Person responsible for updating data

**Contact****Name of organization / entity**

Mashhad University of Medical Sciences

**Full name of responsible person**

Hamidreza Bahrami

**Position**

Assistant Prof of Traditional and Complementary Medicine

**Other areas of specialty/work****Street address****City**

Mashhad

**Postal code****Phone**

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bahramihr@mums.ac.ir

**Web page address**

### Sharing plan

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

*empty*

**Study Protocol**

*empty*

**Statistical Analysis Plan**

*empty*

**Informed Consent Form**

*empty*

**Clinical Study Report**

*empty*

**Analytic Code**

*empty*

**Data Dictionary**

*empty*