

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Comparison of the effects of oral acetazolamide versus Cosopt drops to prevent increase in intraocular pressure after YAG laser in posterior capsulotomy

Protocol summary

Summary

Purpose: The purpose of this study is to compare therapeutic effects of oral acetazolamide versus Cosopt drops to prevent increase in intraocular pressure after Nd-YAG laser in posterior capsulotomy. Plan: A block-randomized, single-blind, placebo-controlled Clinical Trial, Phase II. Inclusion criteria: patients with age over 40 years who have undergone phacoemulsification surgery at least 3 months ago, and have posterior capsule opacity. Exclusion criteria: Patients with asthma and pulmonary obstructive diseases, medication side effects, retinopathy, severe corneal opacity, occurrence of intraoperative complications, history of glaucoma, uveitis, absence in the follow up, and traumatic cataract. Interventions: First group will receive oral acetazolamide with placebo drops, and the second group will receive Cosopt drops with oral placebo. Primary outcome: Reduction in intraocular pressure.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201112148410N1**
Registration date: **2012-01-01, 1390/10/11**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2012-01-01, 1390/10/11

Registrant information

Name

Ahmad Sarvarian

Name of organization / entity

Arak University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Arak University of Medical Sciences, Vice chancellor for research

Expected recruitment start date

2011-03-21, 1390/01/01

Expected recruitment end date

2012-03-20, 1391/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effects of oral acetazolamide versus Cosopt drops to prevent increase in intraocular pressure after YAG laser in posterior capsulotomy

Public title

Comparison of the effects of oral acetazolamide versus Cosopt drops to prevent increase in intraocular pressure after YAG laser in posterior capsulotomy

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: 1. age over 40 years; 2. phacoemulsification surgery at least 3 months ago; 3. To have posterior capsule opacity; 4. patient should be operated by phacoemulsification method. Exclusion

criteria: 1. asthma and pulmonary obstructive diseases; 2. medication side effects; 3. Retinopathy; 4. severe corneal opacity; 5. occurrence of intraoperative complications; 6. history of glaucoma; 7. Uveitis; 8. absence in the follow up; 9. traumatic cataract.

Age

From **40 years** old to **149 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **200**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethical committee of Arak University of Medical Sciences

Street address

Arak University of Medical Sciences, Alamolhoda Ave

City

Arak

Postal code

Approval date

2011-02-11, 1389/11/22

Ethics committee reference number

89-104-4

Health conditions studied

1

Description of health condition studied

Ocular hypertension

ICD-10 code

H40.0

ICD-10 code description

Glaucoma suspect: Ocular hypertension

Primary outcomes

1

Description

Ocular hypertension

Timepoint

before capsulotomy surgery and 24 hours after capsulotomy surgery

Method of measurement

Goldmann tonometry

Secondary outcomes

empty

Intervention groups

1

Description

First group, will receive oral acetazolamide 250 mg/6h and placebo drops every 8h after capsulotomy with laser for 24 hours.

Category

Treatment - Drugs

2

Description

Second group, will receive Cosopt drops every 8h and oral placebo capsule every 6h after capsulotomy with laser for 24 hours.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Amirkabir Hospital

Full name of responsible person

Dr Ahamd Sarvarian

Street address

City

Arak

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Arak University of Medical Sciences, Vice chancellor for research

Full name of responsible person

Dr Saeed Changizi Ashtiani

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Arak University Of Medical Science, Basij Square

City

Arak
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Arak University of Medical Sciences, Vice chancellor for research
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

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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