Clinical Trial Protocol
Iranian Registry of Clinical Trials

09 Nov 2026

comparison between apraclonidine and timolol in preventing itraocular pressure rise after YAG laser capsulotomy

Protocol summary

Summary

Regarding high prevalence of cataract surgery and posterior capsular opacity as its complication that need laser capsulotomy, and at the other hand rising intra ocular pressure after laser capsulotomy, this clinical trial study was done on 200 eyes of patients after YAG laser capsulotomy for posterior capsular opacity to evaluate and compare the effect of apraclonidine and timolol separately in decreasing intraocular pressure after laser capsulotomy in Matini hospital, Kashan. Inclusion criteria was posterior capsular opacity after uncomplicated cataract surgery according to clinical symptoms and ophthalmologist slit lamp examination. Exclusion criteria were glaucoma and anterior segment diseases. First intraocular pressure was checked with Goldman applanation tonometery method, then the patients were divided randomly into two groups and each group was treated with timolol 0.5% eye drop(Sinadaroo made) or apraclonidine 0.5% eye drop (Alcon made) double blindly. Yag laser capsulotomy performed for patients 1 hour thereafter. Again intraocular pressure was recorded 6 and 24 hours after capsulotomy with the same method. Data entered SPSS software version 15 and were analyzed with Chi-Square, T-test, Reapeted mesaurement and bonferroni tests.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201109267218N2**
Registration date: **2011-10-07, 1390/07/15**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2011-10-07, 1390/07/15

Registrant information

Name
hasan farajipoor
Name of organization / entity
kashan universiyt of medical sceince
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Iran (Islamic Republic of)
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Recruitment status

Recruitment complete

Funding source

Kashan University of Medical Sciences

Expected recruitment start date

2009-09-23, 1388/07/01

Expected recruitment end date

2010-09-23, 1389/07/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

comparison between apraclonidine and timolol in preventing itraocular pressure rise after YAG laser capsulotomy

Public title

comparison between apraclonidine and timolol in preventing itraocular pressure rise after YAG laser capsulotomy

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:patients with posterior capsular opacity after uncomplicated cataract surgery Exclusion criteria:

glaucoma, anterior segment diseses

Age
No age limit

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)
Double blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
kashan university of medical science

Street address
ghotb ravandi blvd kiloometer 5

City
kashan

Postal code
8715988141

Approval date
2009-06-16, 1388/03/26

Ethics committee reference number
p/29/511/800

Health conditions studied

1

Description of health condition studied
posterior capsular opacity

ICD-10 code
H26.4

ICD-10 code description
After-cataract

Primary outcomes

1

Description
itraocular pressure

Timepoint
1 hour before and 6 and 24 hour after laser

Method of measurement
goldman tonometry

Secondary outcomes

1

Description
no intraocular pressure rise

Timepoint
no intraocular pressure rise

Method of measurement
no intraocular pressure rise

Intervention groups

1

Description
Group1: Timolol eye drop 0.5% (Sina daroo made) applied 1 hour before laser, then after 6 and 24 hour laser intraocular pressure cheked.

Category
Treatment - Drugs

2

Description
Group2: Apraclonidine eye drop 0.5% (Alcon made) applied 1 hour before laser, then after 6 and 24 hour laser intraocular pressure cheked.

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
kashan matini hospital

Full name of responsible person
Dr hasan farajipoor

Street address
Esfahan state, kashan city, Amirkabir Ave, Matini hospital

City
kashan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
kashan university of medical science

Full name of responsible person
Dr gholamali hamidi

Street address
ghotb ravandi blvd kiloometer 5, kashan university of medical science
City
kashan
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
kashan university of medical science
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
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ophthalmologist
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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