Clinical Trial Protocol
Iranian Registry of Clinical Trials

10 Jun 2026

A comparison changing short time intraocular pressure (IOP) fluctuation in intravitreal bevacizumab injection with and without acetazolamide oral drug in amir almomenin hospital, A clinical trial study

Protocol summary

Study aim

To determine the impact oral Acetazolamide in changing short time intraocular pressure (IOP) fluctuation in intra vitreous bevacizumab injection

Design

340 eyes of patients who were injected intravitreous bevacizumab were assigned randomly into 2groups with 170 eyes in each group. Group1 receiving oral Acetazolamide 250 mg half hour time before intravitreous bevacizumab injection from Mehr darou company Second group dont receive oral Acetazolamide before intravitreous bevacizumab injection.

Settings and conduct

This study is clinical trial with control group the study will be conducted in the eye clinic of Amiralmomenin hospital.

Participants/Inclusion and exclusion criteria

Inclusion criteria: all of the patients with a eye disease need to intravitreous bevacizumab injection in amiralmomnin hospital. Non Inclusion criteria: patients with a history of glaucoma¸ glaucoma surgery ¸scleral buckle¸ deep vitrectomy¸ iris neovascularization and history of anti glaucoma drug excluded in this study.

Intervention groups

Intervention group:Patients in Intervention groups at first measuring intraocular pressure with Tonometry slit lamp. Then receiving oral Acetazolamide 250mg ,30 minutes before intravitreous bevacizumab Injection and then 2-3 hours after injection, measuring Intraocular pressure with Tonometry and compared with control group. Control group: First measuring Intraocular pressure with Tonometry slit lamp. Before intravitreous bevacizumab Injection and no receiving oral Acetazolamide and then 2-3 hours after intravitreous bevacizumab Injection Remeasuring Intraocular pressure with Tonometry slit lamp and compared with Intervention group.

Main outcome variables

Intraocular pressure

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20210408050895N1**
Registration date: **2021-06-20, 1400/03/30**
Registration timing: **registered_while_recruiting**

Last update: **2021-06-20, 1400/03/30**
Update count: **0**

Registration date

2021-06-20, 1400/03/30

Registrant information

Name

hasan behboudi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 13 3332 6886

Email address

behboudi_dr@yahoo.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-06-20, 1400/03/30

Expected recruitment end date

2022-06-20, 1401/03/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date
empty

Scientific title
A comparison changing short time intraocular pressure (IOP) fluctuation in intravitreal bevacizumab injection with and without acetazolamide oral drug in amir almomenin hospital, A clinical trial study

Public title
To determine the impact oral Acetazolamide in changing short time intraocular pressure (IOP) fluctuation in intra vitreous bevacizumab injection

Purpose
Treatment

Inclusion/Exclusion criteria

Inclusion criteria:
all of the patients with a eye disease need to intra vitreous bevacizumab injection in amiralmomnin hospital

Exclusion criteria:
patients with a history of glaucoma ¸ glaucoma surgery scleral buckle (SB) deep vitrectomy (Vitx) iris neovascularization (NI) history of anti-glaucoma drug

Age
No age limit

Gender
Both

Phase
1

Groups that have been masked
No information

Sample size
Target sample size: **340**

Randomization (investigator's opinion)
Randomized

Randomization description
Patients who were included were assigned randomly in 2 groups. Group A: patients receiving oral Acetazolamide 250 mg half hour time before intra vitreous Bevacizumab injection. Group B: patients with no receiving oral Acetazolamide before intra vitreous Bevacizumab injection The ward nurse randomly and without information from primary disease of patient give half of them oral Acetazolamide 250mg and half of them not receiving oral Acetazolamid and then entering groups.

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ethics committee of Giulan University of Medical Sciences

Street address
Amiralmomenin Hospital, 17 Shahrivar St., Rasht, Guilan, Iran

City
Rasht

Province
Guilan

Postal code
4136937459

Approval date
2021-02-17, 1399/11/29

Ethics committee reference number
IR.GUMS.REC.1399.609

Health conditions studied

1

Description of health condition studied
all of the patients with a eye disease need to intravitreous bevacizumab injection

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description
intraocular pressure

Timepoint
half an hour before injecting bevacizumab in vitrous and three hours after injection

Method of measurement
Tonometer Asylum Lamp

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: Patients in Intervention groups at first measuring intraocular pressure with Tonometry slit lamp. Then receiving oral Acetazolamide 250mg , 30 minutes before intravitreous bevacizumab injection and then 2-3 hours after intravitreous bevacizumab Injection measuring Intraocular pressure with Tonometry and compared with control group.

Category
Treatment - Drugs

2

Description
Control group: Patients in Control groups at first measuring Intraocular pressure with Tonometry slit lamp. Before intravitreous bevacizumab Injection and no Receiving oral Acetazolamide and then 2-3 hours after intravitreous bevacizumab Injection Remeasuring Intraocular pressure with Tonometry slit lamp and compared with Intervention group

Category
N/A

Recruitment centers

1

Recruitment center

Name of recruitment center
Amiralmomenin Hospital

Full name of responsible person
Hasan Behboudi

Street address
Eye Research Center, Department of Eye, Amiralmomenin Hospital, School of Medicine, Guilan University of Medical Sciences, Rasht, Iran.

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Rasht University of Medical Sciences

Full name of responsible person
Dr Mohammadreza Naghipour

Street address
Deputy of Research and Technology of Guilan University of Medical Sciences- in front of 17 Shahrivar Hospital– Shahid Siadati Ave.– Namjoo St.– RASHT- IRAN

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research@gums.ac.ir

Grant name

Grant code / Reference number

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

Title of funding source
Rasht 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
Rasht University of Medical Sciences

Full name of responsible person
Hasan Behboudi

Position
Associate professor

Latest degree
Subspecialist

Other areas of specialty/work
Ophthalmology

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Person responsible for scientific inquiries

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Position
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Person responsible for updating data

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Research Assistance

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Master

Other areas of specialty/work
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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
No - There is not a plan to make this available

Informed Consent Form
No - There is not 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
Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary
Undecided - It is not yet known if there will be a plan to make this available