

Clinical Trial Protocol

Iranian Registry of Clinical Trials

01 Sep 2026

Comparative study the effect of “phacoemulsification and viscogoniosynechialysis (VGSL)” with “phacoemulsification and viscogoniosynechialysis and goniotomy” in patients with primary angle closure glaucoma (PACG).

Protocol summary

Study aim

Comparative study the effect of “phacoemulsification and viscogoniosynechialysis (VGSL)” with “phacoemulsification and viscogoniosynechialysis and goniotomy” in patients with primary angle closure glaucoma (PACG)

Design

Clinical trial with control group, single-blind, was performed in a sample of 63 eyes

Settings and conduct

In Khatam-ol-Anbia hospital, patients underwent “Phacoemulsification + VGSL” and the intervention group underwent “Phacoemulsification + VGSL + Goniotomy” which patients and researcher were single blinded .

Participants/Inclusion and exclusion criteria

patients with angle closure glaucoma as candidate for surgery with a maximum Cup to Disc Ratio (CDR) of 80% and absence of Peripheral Anterior Synechiae (PAS) in nasal quadrant

Intervention groups

In the Intervention group, the patients underwent “Phacoemulsification + viscogoniosynechialysis (VGSL) + Goniotomy” and in the control group “Phacoemulsification + viscogoniosynechialysis

Main outcome variables

the Optical coherence tomography (OCT) criteria, number of drugs used to control glaucoma and Intra Ocular Pressure (IOP)

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20181017041367N1**

Registration date: **2019-02-15, 1397/11/26**

Registration timing: **retrospective**

Last update: **2019-02-15, 1397/11/26**

Update count: **0**

Registration date

2019-02-15, 1397/11/26

Registrant information

Name

Saeed Shokoohi Rad

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 51 3728 5290

Email address

shokouhirads@mums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-01-21, 1396/11/01

Expected recruitment end date

2018-04-21, 1397/02/01

Actual recruitment start date

2018-01-25, 1396/11/05

Actual recruitment end date

2018-03-06, 1396/12/15

Trial completion date

2018-09-07, 1397/06/16

Scientific title

Comparative study the effect of “phacoemulsification and viscogoniosynechialysis (VGSL)” with “phacoemulsification and viscogoniosynechialysis and

goniotomy” in patients with primary angle closure glaucoma (PACG).

Public title
The effect of goniotomy on primary angle closure glaucoma

Purpose
Treatment

Inclusion/Exclusion criteria
Inclusion criteria:
primary angle closure glaucoma as candidate for surgery
Exclusion criteria:
absence of Peripheral Anterior Synechiae (PAS) in nasal quadrant maximum Cup to Disc Ratio (CDR) of 80%

Age
No age limit

Gender
Both

Phase
N/A

Groups that have been masked

- Participant

Sample size
Target sample size: **70**
Actual sample size reached: **63**

Randomization (investigator's opinion)
Randomized

Randomization description
Simple randomization

Blinding (investigator's opinion)
Single blinded

Blinding description
Participants were blinded to the project so that they were unaware of their surgery group

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Mashhad University of Medical Sciences

Street address

Khatam Al Anbia Hospital , Shahid Gharani Boulevard , Abutaleb Crossing , Mashhad Town

City

Mashhad

Province

Razavi Khorasan

Postal code

9195965919

Approval date

2017-12-24, 1396/10/03

Ethics committee reference number

IR.MUMS.fm.REC.1396.103

Health conditions studied

1

Description of health condition studied

primary angle closure glaucoma

ICD-10 code

H40.2

ICD-10 code description

Primary angle-closure glaucoma

Primary outcomes

1

Description

Intra Ocular Pressure (IOP)

Timepoint

Before surgery, one week, one month, three months and six months later

Method of measurement

Goldman tonometer

2

Description

antiglaucoma medication

Timepoint

Before surgery, one week, one month, three months and six months later

Method of measurement

questionnaire

3

Description

Optical coherence tomography (OCT) parameter

Timepoint

Before surgery, one week, one month, three months and six months later

Method of measurement

CASIA-1

Secondary outcomes

1

Description

Timepoint

Method of measurement

2

Description

antiglaucoma medication

Timepoint

Before surgery, one week, one month, three months and

six months later
Method of measurement
questionnaire

3

Description
Optical coherence tomography (OCT) parameter
Timepoint
Before surgery, one week, one month, three months and six months later
Method of measurement
CASIA-1

Intervention groups

1

Description
Intervention group: "Phacoemulsification + Viscogoniosynechialysis + Goniotomy" surgery
Category
Treatment - Surgery

2

Description
Control group: "Phacoemulsification + Viscogoniosynechialysis" surgery
Category
Treatment - Surgery

Recruitment centers

1

Recruitment center
Name of recruitment center
Khatam al anbia hospital
Full name of responsible person
Saeed Shokoohi Rad
Street address
Khatam Al Anbia Hospital , Abutaleb Crossing, Shahid Gharani Boulevard, Mashhad Town
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<http://khatam.mums.ac.ir/>

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Mashhad University of Medical Sciences
Full name of responsible person
Mohsen Tafaghodi
Street address
Quraishi Building , Daneshgah Ave , Mashhad town
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91357345
Phone
+98 51 3841 2081
Email
vcresearch@mums.ac.ir

Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Mashhad 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
Mashhad University of Medical Sciences
Full name of responsible person
Saeed Shokoohi Rad
Position
Assistant Professor
Latest degree
Subspecialist
Other areas of specialty/work
Ophthalmology
Street address
khatam al anbia hospital , Aboutaleb crossing , Shahid gharani Blvd , Mashhad Town
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Person responsible for scientific inquiries

Contact

Name of organization / entity

Mashhad University of Medical Sciences

Full name of responsible person

Saeed Shokoohi Rad

Position

Assistant Professor

Latest degree

Subspecialist

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

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

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

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

Person responsible for updating data

Contact

Name of organization / entity

Mashhad University of Medical Sciences

Full name of responsible person

Alireza Mojarrad Sani Oghaz

Position

Intern

Latest degree

Medical doctor