

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Evaluation of the effect of using absorbable sutures in encircling band in reducing complications of scleral buckling surgery to treat pseudophakic retinal detachment

Protocol summary

Study aim

Use of releasable sutures in encircling band to treat pseudophakic retinal detachment

Design

Clinical trial without control group, with one intervention group, without blinding, without randomization, without drug intervention on 50 patients.

Settings and conduct

In this study, 50 patients with pseudophakic retinal detachment referred to the ophthalmology clinic of Imam Khomeini Hospital in Ahwaz will be evaluated by medical history and demographic information using a questionnaire and will be included in the study if they meet the inclusion criteria. Subsequently, patients will undergo scleral buckling surgery using vicryl absorbable suture in the encircling band and will be monitored and recorded ocular changes in terms of desired parameters one week, 3 months and 6 months after surgery.

Participants/Inclusion and exclusion criteria

Patients with pseudophakic retinal detachment referred to the ophthalmology clinic of Imam Khomeini Hospital in Ahwaz are included in the study. Exclusion criteria: Previous history of retinal detachment surgery, diabetic retinopathy, glaucoma, uveitis, macular hole, age-related exudative macular degeneration, macular geographic atrophy, choroidal neovascular membrane and macular scar.

Intervention groups

Intervention group: 50 patients with pseudophakic retinal detachment and eligible for inclusion in the study will undergo scleral buckling surgery using absorbable suture vicryl 6-0 in the encircling band and then one week, three months and 6 months after surgery. Follow-up of the observed variables will be used to evaluate the effect of the technique used in reducing the complications of surgery.

Main outcome variables

Determination of visual acuity; Refractive error; Eye axis length; Depth of anterior chamber

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20200131046318N1**

Registration date: **2020-12-22, 1399/10/02**

Registration timing: **registered_while_recruiting**

Last update: **2020-12-22, 1399/10/02**

Update count: **0**

Registration date

2020-12-22, 1399/10/02

Registrant information

Name

mahsa asadi moghadam

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 61 3222 2818

Email address

mahsaasadimoghadam@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-06-22, 1398/04/01

Expected recruitment end date

2021-03-19, 1399/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date
empty

Scientific title
Evaluation of the effect of using absorbable sutures in encircling band in reducing complications of scleral buckling surgery to treat pseudophakic retinal detachment

Public title
Use of absorbable suture in encircling band to treat pseudophakic retinal detachment

Purpose
Supportive

Inclusion/Exclusion criteria
Inclusion criteria:
Patients with pseudophakic retinal detachment referred to the ophthalmology clinic of Imam Khomeini Hospital in Ahwaz
Exclusion criteria:
Previous history of retinal detachment surgery History of diabetic retinopathy History of glaucoma History of uveitis History of macular hole History of age-related exudative macular degeneration History of macular geographic atrophy History of choroidal neovascular membrane History of macular scar

Age
No age limit

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **50**

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

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Research Ethics Committee

Street address

Golestan Blvd., Ahvaz Jundishapur University of

Medical Sciences
City
Ahwaz
Province
Khouzestan
Postal code
6135715794
Approval date
2018-10-13, 1397/07/21
Ethics committee reference number
IR.AJUMS.REC.1397.490

Health conditions studied

1

Description of health condition studied

Pseudophakic retinal detachment

ICD-10 code

H33.8

ICD-10 code description

Other retinal detachments

Primary outcomes

1

Description

Visual acuity

Timepoint

Before surgery and one week, 3 months and 6 months after surgery

Method of measurement

A person's visual acuity according to Snellen chart at a distance of 6 meters

2

Description

Refractive error

Timepoint

Before surgery and one week, 3 months and 6 months after surgery

Method of measurement

Digital refractometer

3

Description

Eye axis length

Timepoint

Before surgery and one week, 3 months and 6 months after surgery

Method of measurement

IOL Master

4

Description

Depth of anterior chamber

Timepoint

Before surgery and one week, 3 months and 6 months

after surgery
Method of measurement
IOL Master

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Patients with pseudophakic retinal detachment will undergo scleral buckling surgery using absorbable suture yarn Vikril 0-6, domestically produced from Supa company , instead of non-absorbable 5-0 Merceline suture , in encircling band tightening suture.

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Ophthalmology Clinic of Imam Khomeini Hospital in Ahwaz

Full name of responsible person

Mahsa Asadi Moghadam

Street address

Azadegan

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<https://ajums.ac.ir/>

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ahvaz University of Medical Sciences

Full name of responsible person

Majid Karandish

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Grant name

Grant code / Reference number

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

Yes

Title of funding source

Ahvaz 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

Ahvaz University of Medical Sciences

Full name of responsible person

Fereydoon Farhi

Position

Professor

Latest degree

Subspecialist

Other areas of specialty/work

Ophthalmology

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Person responsible for scientific inquiries

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Full name of responsible person

Fereydoon Farhi

Position

Professor

Latest degree

Subspecialist

Other areas of specialty/work

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Person responsible for updating data

Contact

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Mahsa Asadi Moghadam

Position

Resident

Latest degree

Medical doctor

Other areas of specialty/work

Ophthalmology

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

There is no more information

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

Only part of the data such as information about the main outcome or the like can be shared.

When the data will become available and for how long

Access period starts 6 months after the results are published

To whom data/document is available

The data will be available only to researchers working in academic and scientific institutions

Under which criteria data/document could be used

Analysis is allowed on the shared data

From where data/document is obtainable

mahsaasadimoghadam@gmail.com

What processes are involved for a request to access data/document

Receive a request and respond to it

Comments