

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

19 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

#### City

Ahwaz

#### Province

Khuzestan

#### Postal code

6135715794

#### Phone

+98 61 3222 4171

#### Email

mahsaasadimoghadam@gmail.com

#### Web page address

<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

#### Street address

Golestan Blvd., Ahvaz Jundishapur University of Medical Sciences

#### City

Ahwaz

#### Province

Khuzestan

#### Postal code

6135715794

#### Phone

+98 61 3311 2828

#### Email

ajums@domain.ac.ir

#### 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

#### Street address

Azadegan, Imam Khomeini Hospital

#### City

Ahwaz

#### Province

Khuzestan

#### Postal code

6135715794

#### Phone

+98 61 3222 4171

#### Email

ffarahi@gmail.com

## Person responsible for scientific 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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**City**

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**Province**

Khouzestan

**Postal code**

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**Phone**

+98 61 3222 4171

**Email**

ffarahi@gmail.com

**Person responsible for updating data**

**Contact**

**Name of organization / entity**

Ahvaz University of Medical Sciences

**Full name of responsible person**

Mahsa Asadi Moghadam

**Position**

Resident

**Latest degree**

Medical doctor

**Other areas of specialty/work**

Ophthalmology

**Street address**

Azadegan, Imam Khomeini Hospital

**City**

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**Province**

Khouzestan

**Postal code**

6135715794

**Phone**

+98 61 3222 4171

**Email**

mahsaasadimoghadam@gmail.com

**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**