

Clinical Trial Protocol

Iranian Registry of Clinical Trials

06 Jul 2026

The comparison of endothelial cell changes, pterygium thickness and recurrence rate between preoperative subpterygeal injection of bevacizumab Vs mitomycin C

Protocol summary

Summary

objectives: to compare endothelial cell changes, pterygium thickness and recurrence rate between preoperative subpterygeal injection of bevacizumab Vs mitomycin C Design: Randomized clinical trial setting: Patients with primary pterygium who come to Khatam Eye Hospital between May 2016 to November 2016 were divided to two groups . Participants: Consecutive patients with priamry pterygium without history of previous pterygium surgery, pregnancy, glaucoma and autoimmune disease intervention: 1 month preoperative subpterygeal injection of bevacizumab vs mitomycin C main outcome measures: recurrence rate, endothelial cell changes, pterygium thickness

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016042227525N1**

Registration date: **2016-07-02, 1395/04/12**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2016-07-02, 1395/04/12

Registrant information

Name

Ameneh Karimi

Name of organization / entity

Mashhad University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

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Email address

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Recruitment status

Recruitment complete

Funding source

Governmental

Expected recruitment start date

2016-05-14, 1395/02/25

Expected recruitment end date

2016-11-20, 1395/08/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The comparison of endothelial cell changes, pterygium thickness and recurrence rate between preoperative subpterygeal injection of bevacizumab Vs mitomycin C

Public title

Preoperative subpterygeal injection of bevacizumab Vs mitomycin C for pterygium surgery

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Primary pterygium Exclusion criteria:; Pregnancy ; history of pterygium surgery; glaucoma; trachoma ; autoimmune disease

Age

No age limit

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: 50

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

1

Registry name

Secondary trial Id

Registration date

2017-11-21, 1396/08/30

Ethics committees

1

Ethics committee

Name of ethics committee

Ethic committee of Mashhad University of Medical Sciences

Street address

Qoreishi Building, Daneshgah St, Mashhad, Iran

City

Mashhad

Postal code

Approval date

2015-09-02, 1394/06/11

Ethics committee reference number

IR.MUMS.fm.REC.13940210

Health conditions studied

1

Description of health condition studied

Pterygium

ICD-10 code

H11.0

ICD-10 code description

Excl.pseudopterygium(H11.8)

Primary outcomes

1

Description

Pterygium thickness

Timepoint

Preoperative subpterygeal njection and 1 month after injectin of mitomycin C and bevacizumab

Method of measurement

Anterior segment OCT

2

Description

Endothelial cell count

Timepoint

Preoperative subpterygeal injection and 1 ,3, 6 month after pterygium surgery

Method of measurement

Specular microscopy

Secondary outcomes

1

Description

Recurrence rate of pterygium

Timepoint

6 months after pterygium surgery

Method of measurement

Eye examination with Slit-lamp biomicroscope

Intervention groups

1

Description

Group a: 1month preoperative subpterygeal injection of 0.1 cc mitomycin C

Category

Treatment - Drugs

2

Description

Group b: 1 month preoperative subpterygeal injection of 0.1 cc bevacizumab

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Khatam-Al-Anbia Eye Hospital

Full name of responsible person

Hamid Khakshoor, Professor of Ophthalmology ,Anterior Segment Fellowship

Street address

Khatam-Al-Anbia Eye Hospital , Abutaleb junction, Ghareni Blvd, Mashhad, Iran

City

Mashhad

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Voice Chancellor for Research - Mashhad University of Medical Sciences

Full name of responsible person

Mahyar Mirheydari

Street address

Qoreishi Building , Daneshgah St, Mashhad , Iran

City

Mashhad

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Voice Chancellor for Research - Mashhad University of Medical Sciences

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**

Mashhad University of Medical Sciences

Full name of responsible person

Hamid khakshoor

Position

Professor of ophthalmology , Anterior segment fellowship

Other areas of specialty/work**Street address**

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Person responsible for updating data

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Fax**Email****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