

Clinical Trial Protocol

Iranian Registry of Clinical Trials

07 Jun 2026

comparison of nylon versus vicryl sutures on conjunctival autografting in pterygium surgery

Protocol summary

Study aim

comparison of nylon sutures versus vicryl sutures on conjunctival autografting of pterygium surgery

Design

This is a randomized clinical trial .Sample selection was easy and accessible and sample size was considered as two groups of 35. Samples were patients with pterygium referred randomly to Shahid Sadoughi Hospital in Yazd.Randomly divided into two groups a: using nylon sutures and group b: using vicryl sutures for suturing the conjunctival autograft.

Settings and conduct

After obtaining the code of ethics and registration in the Clinical Trial Center (RCT), 70 eligible patients are included in the study. After a thorough examination by an ophthalmologist or ophthalmologist, they are divided into two groups of 35 A and B according to a random table. A: The use of nylon thread and group B: the use of vicryl thread. After collection, the data are entered into STATA14 software and according to the qualitative nature of most dependent variables will be analyzed using Chi-square test. Also, the pain score variable will be compared between the two groups using the non-parametric Mann-Whitney U test.

Participants/Inclusion and exclusion criteria

age more than 18 people with decreased vision or stigma more than 3D Patients with complaints of apparent malformation of the pterygium people with pseudo pterygium people with collagen vascular sickness people with Corneal dystrophy people with sever dry eye people with previous history of pterygium surgery people with temporal pterygium

Intervention groups

GROUP A: using nylon sutures for conjunctival autografting GROUP B: using Vicryl sutures for conjunctival autografting

Main outcome variables

Knot opening, foreign body sensation, redness of eyes, pain intensity, conjunctival camouflage, papillary

reaction

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20220513054834N1**

Registration date: **2022-06-29, 1401/04/08**

Registration timing: **retrospective**

Last update: **2022-06-29, 1401/04/08**

Update count: **0**

Registration date

2022-06-29, 1401/04/08

Registrant information

Name

saeede akbari

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 917 387 9500

Email address

saeede.light@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-08-23, 1400/06/01

Expected recruitment end date

2022-03-21, 1401/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

comparison of nylon versus vicryl sutures on conjunctival autografting in pterygium surgery

Public title

comparison of nylon versus vicryl sutures on conjunctival autografting in pterygium surgery

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria:

age more than 18 people with decreased vision or stigma more than 3D Patients with complaints of apparent malformation of the pterygium

Exclusion criteria:

people with pseudo pterygium people with collagen vascular sickness people with Corneal dystrophy people with sever dry eye people with previous history of pterygium surgery people with temporal pterygium

Age

From 18 years old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: 70

Randomization (investigator's opinion)

Randomized

Randomization description

Randomization with a block randomization list was used to allocate patients to either vicryl or nylon suture groups. Patients were unaware of the suture material being used, but the surgeon and postoperative assessor were not masked to the assignment.

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

Ethic committee of yazd university of medical sciences

Street address

Yazd, Shahid Bahonar Square

City

Yazd

Province

Yazd

Postal code

34245534

Approval date

2022-05-02, 1401/02/12

Ethics committee reference number

IR.SSU.SPH.REC.1401.010

Health conditions studied

1

Description of health condition studied

Pterygium

ICD-10 code

H11.0

ICD-10 code description

Pterygium of eye

Primary outcomes

1

Description

Untie the knot

Timepoint

Examination is performed on the 1st, 7th, 4th and 8th week after the operation in terms of the studied variables according to a questionnaire pre-determined by the ophthalmologist's assistant.

Method of measurement

visual analogue scale questionnaire

Secondary outcomes

1

Description

eye redness

Timepoint

Examination is performed on the 1st, 7th, 4th and 8th week after the operation in terms of the studied variables according to a questionnaire pre-determined by the ophthalmologist's assistant.

Method of measurement

As an observation

Intervention groups

1

Description

This study is a randomized clinical trial (RCT) in which 70 patients referred to Shahid Sadoughi Hospital who are eligible to enter and are candidates for pterygium surgery are divided into two groups of 35 people A and B. In group A, nylon sutures is used and in group B, vicryl sutures is used for conjunctival graft. Examination is

performed on days 1, 7, 4 and 8 weeks after the operation in terms of the studied variables according to a questionnaire pre-determined by the ophthalmologist's assistant. The two groups are compared in terms of conjunctival redness, conjunctival chemosis, foreign body sensation, pain according to the VAS criterion, and the degree to which the sutures open.

Category

Treatment - Surgery

2**Description**

This study is a randomized clinical trial (RCT) in which 70 patients referred to Shahid Sadoughi Hospital who are eligible to enter and are candidates for pterygium surgery are divided into two groups of 35 people A and B. In group A, nylon sutures is used and in group B, vicryl sutures is used for conjunctival graft. Examination is performed on days 1, 7, 4 and 8 weeks after the operation in terms of the studied variables according to a questionnaire pre-determined by the ophthalmologist's assistant. The two groups are compared in terms of conjunctival redness, conjunctival chemosis, foreign body sensation, pain according to the VAS criterion, and the degree to which the sutures open.

Category

Treatment - Surgery

Recruitment centers**1****Recruitment center****Name of recruitment center**

Shahid Sadoughi Yazd hospital

Full name of responsible person

saeede akbari

Street address

Yazd, Shahid Ghandi Boulevard, Ibn Sina Boulevard

City

Yazd

Province

Yazd

Postal code

8785789158

Phone

+98 35 3822 4000

Email

saeede.light@gmail.com

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Yazd University of Medical Sciences

Full name of responsible person

Dr mehrparvar

Street address

Yazd, Shahid Ghandi Boulevard, Ibn Sina Boulevard

City

Yazd

Province

Yazd

Postal code

4555644332

Phone

+98 35 3724 0171

Email

saeede.light@gmail.com

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

Yes

Title of funding source

Yazd 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**

Yazd University of Medical Sciences

Full name of responsible person

saeede akbari

Position

student

Latest degree

Bachelor

Other areas of specialty/work

surgical technologist

Street address

Beheshti Town - Soroush St. - Soroush 1/4

City

شهر صنعتی بزرگ / شیراز

Province

Fars

Postal code

718936345

Phone

0731 360 4726

Email

saeede.light@gmail.com

Person responsible for scientific inquiries**Contact****Name of organization / entity**

Yazd University of Medical Sciences

Full name of responsible person

Dr Mohammadreza Shoja
Position
professor
Latest degree
Specialist
Other areas of specialty/work
Ophthalmology
Street address
daneshjoo blv
City
Yazd
Province
Yazd
Postal code
2343545
Phone
0350898983
Email
saeede.light@gmail.com

Person responsible for updating data

Contact

Name of organization / entity
Yazd University of Medical Sciences
Full name of responsible person
saeede akbari
Position
student
Latest degree
Bachelor
Other areas of specialty/work
surgical technologist
Street address
Beheshti Town - Soroush St. - Soroush 1/4
City
شهر صنعتی بزرگ / شیراز
Province
Fars
Postal code
89639768776

Phone
07316404726
Email
saeede.light@gmail.com

Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is 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

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is 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

Title and more details about the data/document

Only part of the data contains the main consequences to 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

Researchers working in academic and scientific institutions

Under which criteria data/document could be used

It must be decided by the circumstances of the time

From where data/document is obtainable

Request the email of the project manager.

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

about a week

Comments