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 auotografting GROUP B: using Vicryl sutures for conjunctival auotografting

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
شهرصنعتی 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
شهرصنعتی 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