Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

The role of umbilical cord serum therapy on improvement of corneal epithelial defect following diabetic vitrectomy

Protocol summary

Summary

Eighty diabetic patients who are underwent vitrectomy and have no history of Eye herpes infection, Refractive surgery, Autoimmune disease and Immune deficiency will be randomized into two groups to evaluate the role of umbilical cord serum therapy on improvement of corneal epithelial defect following diabetic vitrectomy. Both groups will take the conventional medication including Chloramphenicol, Betamethasone and Cycloplegic eye drops and the case group will take further umbilical cord serum eye drop in the operated eye. The corneal epithelial defect will be measured by slit lamp after surgery.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138903241180N15**
Registration date: **2010-06-14, 1389/03/24**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2010-06-14, 1389/03/24

Registrant information

Name
pooya rostami
Name of organization / entity
Opthalmic Research Center
Country
Iran (Islamic Republic of)
Phone
+98 21 2258 5952
Email address
labbafi@hotmail.com

Recruitment status

Recruitment complete

Funding source

Ophthalmic Research Center

Expected recruitment start date

2009-12-28, 1388/10/07

Expected recruitment end date

2010-02-04, 1388/11/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The role of umbilical cord serum therapy on improvement of corneal epithelial defect following diabetic vitrectomy

Public title

The role of umbilical cord serum therapy on corneal epithelial defect

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Diabetic patients with corneal epithelial defect following diabetic vitrectomy at labbafinejad hospital. Exclusion criteria: 1) Any history of Eye herpes infection, Refractive surgery, Autoimmune disease, Immune defficiency; 2) patients with one eye 3) use of any eye drops except Chloramphenicol, Betamethasone, Cycloplegic and contact lens for corneal epithelial defect.

Age

No age limit

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size
Target sample size: **80**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ophthalmic Research Center

Street address
No 23, Pasdaran Ave, 9th Boostan, Ophthalmic Research Center

City
Tehran

Postal code
166666

Approval date
2010-03-17, 1388/12/26

Ethics committee reference number
7699ج ت

Health conditions studied

1

Description of health condition studied
corneal epithelial defect

ICD-10 code
H18.9

ICD-10 code description
Disorder of cornea, unspecified

Primary outcomes

1

Description
measurement of corneal epithelial defect

Timepoint
days 3,5,7,12

Method of measurement
slit lamp

Secondary outcomes

empty

Intervention groups

1

Description
Intervention: chloramphenicol and betamethasone eye drops every 6 hours, cycloplegic (homatropine) eye drop every 8 hours plus umbilical cord serum eye drop 20% every 4 hours

Category
Treatment - Drugs

2

Description
Control: chloramphenicol and betamethasone eye drops every 6 hours, cycloplegic (homatropine) eye drop every 8 hours

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Labbafinejad Hospital

Full name of responsible person
Dr Siamak Moradian

Street address

City
Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Ophthalmic Research Center

Full name of responsible person
Ali-asghar Aghdai

Street address
No 23,Pasdaran Ave, 9th Boostan, Ophthalmic Rsearch Center

City
Tehran

Grant name

Grant code / Reference number

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

Title of funding source
Ophthalmic Research Center

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

Ophthalmic Rsearch Center

Full name of responsible person

Dr Amir Faramarzi

Position

Ophthalmologist

Other areas of specialty/work

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Ophthalmic Research Center, Shahid Beheshti University Medical campus

Full name of responsible person

Dr Simak Moradian

Position

Ophthalmolgist

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity

Ophthalmic Research Center, Shahid Beheshti University Medical Campus

Full name of responsible person

Pooya Rostami

Position

General physician

Other areas of specialty/work

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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