

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

06 Jun 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

Ophthalmic 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 deficiency; 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**

7699 ت ج

**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 Research 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 Research Center  
**Full name of responsible person**  
Dr Amir Faramarzi  
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Ophthalmologist  
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## Person responsible for scientific inquiries

### Contact

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University Medical campus  
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## Person responsible for updating data

### Contact

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Pooya Rostami  
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General physician  
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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*