

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

06 Jun 2026

### Comparison of cross-cylinder and single method of photorefractive keratectomy in correcting medium-high astigmatism :A randomized clinical study

#### Protocol summary

##### Summary

the aim of this study is to compare the visual, refractive and aberrometric results of cross-cylinder and single method of photorefractive keratectomy in correcting medium-high astigmatism using Nidek excimer laser system. The right or left eye of fifty patients would be allocated randomly to one of the study methods.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT201107103827N3**

Registration date: **2012-04-05, 1391/01/17**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2012-04-05, 1391/01/17

##### Registrant information

###### Name

Mohammad Reza Sedghipour

###### Name of organization / entity

Tabriz University of Medical Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 41 1330 6619

###### Email address

sedghipm@tbzmed.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Tabriz University of Medical Sciences

##### Expected recruitment start date

2007-11-06, 1386/08/15

##### Expected recruitment end date

2009-06-05, 1388/03/15

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparison of cross-cylinder and single method of photorefractive keratectomy in correcting medium-high astigmatism :A randomized clinical study

##### Public title

Comparison of cross-cylinder and single method of photorefractive keratectomy in correcting medium-high astigmatism

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: age more than 20 years, refractive stability for at least one year and regular and symmetric astigmatism more than 1.50 diopters Exclusion criteria: corneal thickness less than 480 micron, keratoconus or suspected keratoconus, active ocular disease and systemic collagen disease

##### Age

From **20 years** old to **50 years** old

##### Gender

Both

##### Phase

N/A

##### Groups that have been masked

*No information*

##### Sample size

Target sample size: **50**

## Randomization (investigator's opinion)

Randomized

## Randomization description

## Blinding (investigator's opinion)

Single blinded

## Blinding description

## Placebo

Not used

## Assignment

Parallel

## Other design features

## Secondary Ids

### 1

#### Registry name

www.clinicaltrials.gov

#### Secondary trial Id

NCT00663923

#### Registration date

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Tabriz University of Medical Sciences

##### Street address

Gholghasht street

##### City

Tabriz

##### Postal code

#### Approval date

2007-11-01, 1386/08/10

#### Ethics committee reference number

8643

## Health conditions studied

### 1

#### Description of health condition studied

Medium-high astigmatism

#### ICD-10 code

H52.2

#### ICD-10 code description

Astigmatism

## Primary outcomes

### 1

#### Description

Correction of astigmatism

#### Timepoint

Preoperative and six months postoperative

#### Method of measurement

Refraction

## Secondary outcomes

### 1

#### Description

Visual acuity

#### Timepoint

Preoperative and six months postoperative

#### Method of measurement

Snellen chart

### 2

#### Description

Visual aberrations

#### Timepoint

Preoperative and six months postoperative

#### Method of measurement

Aberrometry

## Intervention groups

### 1

#### Description

cross-cylinder photorefractive keratectomy

#### Category

Treatment - Surgery

### 2

#### Description

single(monotoric) photorefractive keratectomy

#### Category

Treatment - Surgery

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Mehr eye center

##### Full name of responsible person

Afshin Lotfi

##### Street address

Abbasi Avenue

##### City

Tabriz

### 2

#### Recruitment center

##### Name of recruitment center

Nikookari Hospital

##### Full name of responsible person

Afshin LOTFI

##### Street address

Abbasi Avenue

##### City

tABRIZ

## Sponsors / Funding sources

1

### Sponsor

**Name of organization / entity**

Tabriz University of Medical Sciences

**Full name of responsible person**

Dr.Mohammad Reza Rashidi

**Street address**

Gholghasht street,second central building of Tabriz  
University of Medical Sciences

**City**

Tabriz

**Grant name**

**Grant code / Reference number**

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

Yes

**Title of funding source**

Tabriz 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**

Tabriz University of Medical Sciences

**Full name of responsible person**

Mohammad Reza Sedghipour

**Position**

Associate professor

**Other areas of specialty/work**

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## Person responsible for scientific inquiries

### Contact

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## Person responsible for updating data

### Contact

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**Position**

associate professor

**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*