

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### Outcomes of wavefront-guided photorefractive keratectomy for myopic astigmatism - A randomized trial

#### Protocol summary

##### Summary

The aim of this study is to assess the refractive, visual and aberrometric outcomes of wavefront-guided photorefractive keratectomy (PRK) in correcting compound myopic astigmatism using Visx excimer laser system.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT201202243827N4**  
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

2011-01-15, 1389/10/25

##### Expected recruitment end date

2012-02-15, 1390/11/26

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Outcomes of wavefront-guided photorefractive keratectomy for myopic astigmatism - A randomized trial

##### Public title

Outcomes of wavefront-guided photorefractive keratectomy for myopic astigmatism

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criterion: Stable refraction for one year and astigmatism of 1.50-5.0 diopter. Exclusion: Patients with systemic or ocular pathologies interfering with healing process of the cornea, keratoconus, corneal dystrophy; previous trauma or surgery and pachymetry of less than 470 micron

##### 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: **150**

##### Randomization (investigator's opinion)

N/A

##### Randomization description

##### Blinding (investigator's opinion)

Not blinded

## Blinding description

### Placebo

Not used

### Assignment

Single

### Other design features

## Secondary Ids

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

2011-01-10, 1389/10/20

#### Ethics committee reference number

9080

## Health conditions studied

### 1

#### Description of health condition studied

Astigmatism

#### ICD-10 code

H52.2

#### ICD-10 code description

Astigmatism

## Primary outcomes

### 1

#### Description

Correction of astigmatism

#### Timepoint

Six months after operation

#### Method of measurement

Diopter

## Secondary outcomes

### 1

#### Description

Visual acuity

#### Timepoint

Six months after operation

#### Method of measurement

Log MAR

### 2

#### Description

Higher-order aberrations

#### Timepoint

Six months after operation

#### Method of measurement

Micron

## Intervention groups

### 1

#### Description

Wavefront-guided Photorefractive Keratectomy

#### Category

Treatment - Surgery

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Nikookari Hospital

##### Full name of responsible person

Mohammad Reza Sedghipour

##### Street address

Abbasi Avenue

##### City

Tariz

### 2

#### Recruitment center

##### Name of recruitment center

Mehr Eye Center

##### Full name of responsible person

Mohammad Reza Sedghipour

##### Street address

Taleghani Street

##### City

Tabriz

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Tabriz University of medical Sciences

##### Full name of responsible person

Dr.Mohammad Reza Rasgidi

##### Street address

Gholghasht Street,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**

**Street address**

Nikookari hospital,Abbasi avenue

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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*