

Clinical Trial Protocol

Iranian Registry of Clinical Trials

15 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

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Person responsible for scientific inquiries

Contact

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Person responsible for updating data

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Web page address

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