

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 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(monotonic) 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

Street address

Nikookari Hospital,Abbasi avenue

City

Tabriz

Postal code

Phone

+98 41 1330 6619

Fax

+98 41 1657 7336

Email

sedghipm@yahoo.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

Afshin LOTFI

Position

Assistant professor

Other areas of specialty/work

Street address

Nikookari Hospital,Abbasi avenue

City

Tabriz

Postal code

Phone

+98 41 1657 5609

Fax

+98 41 1657 7336

Email

aafshinlotfi48@gmail.com

Web page address

Person responsible for updating data

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 ave

City

Tabriz

Postal code

Phone

+98 41 1330 6619

Fax

+98 41 1657 7336

Email

sedghipm@yahoo.com

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