

Clinical Trial Protocol

Iranian Registry of Clinical Trials

14 Jul 2026

Effect of corneal and scleral incisions in cataract surgery on astigmatism & aberrations

Protocol summary

Summary

The aim of this study is to compare the corneal and scleral incisions in cataract surgery on astigmatism and aberrations. 80 eyes of 40 patients with senile cataract are randomly selected for phacoemulsification through the corneal or scleral incisions between December 2009 and December 2010. Patients with any ocular pathology are excluded. Primary outcomes are correction of astigmatism and corneal aberrations.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138903213827N2**

Registration date: **2010-06-11, 1389/03/21**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2010-06-11, 1389/03/21

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

2009-12-22, 1388/10/01

Expected recruitment end date

2010-12-22, 1389/10/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of corneal and scleral incisions in cataract surgery on astigmatism & aberrations

Public title

Effect of corneal and scleral incisions in cataract surgery on astigmatism & aberrations

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: senile cataract and astigmatism less than 1.25 diopter Exclusion criteria: ocular pathology, age less than 6

Age

From **60 years** old to **90 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **80**

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**

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**

empty

Ethics committee reference number

6028/4/5

Health conditions studied**1****Description of health condition studied**

Astigmatism in cataract surgery

ICD-10 code

H52

ICD-10 code description

Disorders of refraction

2**Description of health condition studied**

Corneal aberrations

ICD-10 code

H59

ICD-10 code description

post procedural disorders of the eye

Primary outcomes**1****Description**

astigmatism

Timepoint

before operation and six months after operation

Method of measurement

keratometry

2**Description**

corneal aberration

Timepoint

before operation and six months after operation

Method of measurement

galilei

Secondary outcomes**1****Description**

visual acuity

Timepoint

before operation and six months after operation

Method of measurement

Snellen chart

Intervention groups**1****Description**

corneal incision in cataract surgery

Category

Treatment - Surgery

2**Description**

scleral incision in cataract surgery

Category

Treatment - Surgery

Recruitment centers**1****Recruitment center****Name of recruitment center**

Nikookari Hospital

Full name of responsible person

Dr. Mohammad Reza Sedghipour

Street address

Abbasi avenue

City

TABRIZ

2**Recruitment center****Name of recruitment center**

Mehr eye center

Full name of responsible person

Dr. Mohammad Reza Sedghipour

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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

Ghlgasht street

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

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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