

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Comparison of the astigmatism axis angle before and after cycloplegic refraction in astigmatic patients

Protocol summary

Study aim

Comparison of the astigmatism axis before and after cycloplegic refraction

Design

In this study 50 patients with astigmatism referring Zahedan Al-Zahra eye hospital will be included in study.

Settings and conduct

In this study 50 patients with astigmatism referring Zahedan Al-Zahra eye hospital will be included in study. All the patients will be assessed by an ophthalmologist by means of a autorefractor and retinoscopy and astigmatism dioptric power and astigmatism axis angle will be determined. Then, cyclopentoat 0/5 % drop (3 drops in each eye with a 5 minutes interval) and phenylephrine 10 %will be used; we will wait 30 minutes for a complete midriasis. The patients' eyes will be assessed again by the same ophthalmologist and the same sets. Finally, the data will be compared before and after using drops.

Participants/Inclusion and exclusion criteria

Inclusion criterion: all the patients with astigmatism referring Al-Zahra ophthalmology clinic in Zahedan
Exclusion criteria: previous eye trauma; previous corneal surgeries; corneal scar; corneal laceration; Down syndrome.

Intervention groups

All the patients will receive cyclopentoate 0/5 % and phenylephrine.

Main outcome variables

Astigmatism axis angle

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20171227038103N1**

Registration date: **2018-02-01, 1396/11/12**

Registration timing: **registered_while_recruiting**

Last update: **2018-02-01, 1396/11/12**

Update count: **0**

Registration date

2018-02-01, 1396/11/12

Registrant information

Name

Nadiya Gheysaranpour

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 54 3329 5715

Email address

nadia.gheysaranpour@zaums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-01-21, 1396/11/01

Expected recruitment end date

2018-03-21, 1397/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the astigmatism axis angle before and after cycloplegic refraction in astigmatic patients

Public title

Investigation the changes in astigmatism axis before and after cycloplegic refraction

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

All patients referring ophthalmology clinic for evaluation and determining refractive error

Exclusion criteria:
Previous eye trauma Previous corneal surgery Corneal laceration Down syndrome

Age
No age limit

Gender
Both

Phase
2-3

Groups that have been masked
No information

Sample size
Target sample size: **50**

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

Ethics committee of Zahedan University of Medical Sciences

Street address

Zahedan University of Medical Sciences and Health Services campus, Khaliye Fars Blv, Doctor Hesabi Sq, Zahedan

City

Zahedan

Province

Sistan-va-Balouchestan

Postal code

9916789547

Approval date

2017-03-07, 1395/12/17

Ethics committee reference number

IR.ZAUMS.REC.1395.107

Health conditions studied

1

Description of health condition studied

Astigmatism

ICD-10 code

H52.2

ICD-10 code description

Astigmatism

Primary outcomes

1

Description

Astigmatism axis angle

Timepoint

Before and after intervention

Method of measurement

By using autorefractometre

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: cyclopentoat 0/5 % drop (3 drops in each eye with a 5 minutes interval) and phenylephrine 10 %

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Alzahra eye hospital

Full name of responsible person

Nadia Gheysaranpoor

Street address

Alzahra eye hospital, Motahhari Blv, Zahedan

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Phone

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Email

Nadiya.gheisaran@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Zahedan University of Medical Sciences

Full name of responsible person

Hoshang Rafighdoost

Street address

Vice chancellor for research, Zahedan University of Medical Sciences campus, Jannat Blvd, Zahedan

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Email

hrafighdoost@gmail.com

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Zahedan University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin**Type of organization providing the funding**

Academic

Person responsible for general inquiries**Contact****Name of organization / entity**

Zahedan University of Medical Sciences

Full name of responsible person

Nadiya Gheysaranpoor

Position

Medical student

Latest degree

Medical doctor

Other areas of specialty/work

General Practitioner

Street address

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Person responsible for scientific inquiries**Contact****Name of organization / entity**

Zahedan University of Medical Sciences

Full name of responsible person

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Position

Medical Student

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Web page address**Sharing plan****Deidentified Individual Participant Data Set (IPD)**

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

There is no more information

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available