Clinical Trial Protocol
Iranian Registry of Clinical Trials

04 Nov 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
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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, Khalije 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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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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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
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Other areas of specialty/work
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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