Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

Comparison between the therapeutic effect of massage and drops of 1% azithromycin with massage and doxycycline 100 mg capsules on the treatment of posterior blepharitis

Protocol summary

Summary

Objective: the comparison between the therapeutic effect of massage and drops of 1% azithromycin with massage and doxycycline 100 mg capsules on treatment of posterior blepharitis. Design: Randomized controlled trial (block method) Inclusion criteria: patients with posterior blepharitis aged 20 to 50 years, moderate blepharitis Grade 3. Exclusion criteria: blepharitis previously treated, severe blepharitis, concurrent ocular disorders. Sample size: Fifty patients with posterior blepharitis based on inclusion and exclusion criteria are chosen randomly divided into two groups. Groups, interventions and times of interventions: Group A: The group receiving ocular massage and drops azithromycin 1 %(14- days ocular massage +2 drops, twice a day for 2 days and then 2 drops, once a day, for 12 days). Group B: The group receiving ocular massage and oral doxycycline 100 mg capsules (14-days ocular massage+1 Doxycycline capsule once day for 4 weeks). Posterior blepharitis symptoms for both groups before the intervention, one week after the intervention and at the end of the treatment are recorded. (Via Schirmer test, ocular symptoms and physical examination). The efficacy of the two methods in the treatment of posterior blepharitis signs and symptoms are compared with each other. Primary outcomes: Schirmer test, the patient's ocular symptoms and the patient's clinical examinations are done and registered in 3 times (before intervention (first visit), 1 week after intervention and at the end of the treatment period). Secondary outcomes: drug side effects.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013120515119N2**

Registration date: **2014-06-27, 1393/04/06**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-06-27, 1393/04/06

Registrant information

Name

Mehdi Zandian

Name of organization / entity

Hamadan University of Health and Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 81 1838 0572

Email address

m.zandian@umsha.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice-chancellor of Research and Technology, Hamadan University of Medical Sciences

Expected recruitment start date

2014-01-01, 1392/10/11

Expected recruitment end date

2014-07-01, 1393/04/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison between the therapeutic effect of massage

and drops of 1% azithromycin with massage and doxycycline 100 mg capsules on the treatment of posterior blepharitis

Public title
Comparison of Therapeutic effect of azithromycin drops and doxycycline capsules on treatment of eyelid inflammation
Purpose
Treatment
Inclusion/Exclusion criteria
Inclusion criteria: (a) patients with posterior blepharitis (b) aged 20 to 50 years, (c) moderate blepharitis Grade 3
Exclusion criteria: (a) blepharitis previously treated, (b) severe blepharitis, (c) concurrent ocular disorders.
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)
Not blinded
Blinding description
Placebo
Not used
Assignment
Parallel
Other design features
Randomization method : Randomization was performed by block randomization method

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics committee of Hamadan University of Medical Sciences
Street address
Hamadan University of Medical Sciences, Shaheed Fahmide Ave.
City
Hamadan
Postal code
6517838695
Approval date
2012-01-02, 1390/10/12
Ethics committee reference number
16/35/9/3494/پ/د

Health conditions studied

1

Description of health condition studied
Posterior Blepharitis
ICD-10 code
H01.0
ICD-10 code description
Blepharitis

Primary outcomes

1

Description
Eye dryness
Timepoint
The first visit, 1 week later and at the end of the treatment period
Method of measurement
Shirmer Test

2

Description
Eye Pruritus
Timepoint
The first visit, 1 week later and at the end of the treatment period
Method of measurement
Questionnaire

3

Description
Corneal or conjunctiva staining
Timepoint
The first visit, 1 week later and at the end of the treatment period
Method of measurement
Slit Lamp

Secondary outcomes

1

Description
Any side effect such as allergy
Timepoint
The first visit, 1 week later and at the end of the treatment period
Method of measurement
Questionnaire

Intervention groups

1

Description
Azithromycin 1% drop, produced by Sina Darou Company, 2 drops 2 times a day for 2 days than 1 drop

daily for 12 days

Category

Treatment - Drugs

2

Description

Doxycycline 100 mg Capsule, produced by Razak company, Once a day for 4 weeks

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Farshchian Hospital

Full name of responsible person

Mehdi Zandian

Street address

Farshchian Hospital, Mirzade Eshghi Ave.

City

Hamadan

2

Recruitment center

Name of recruitment center

Sheikharaes Clinic

Full name of responsible person

Mehdi Zandian

Street address

Khajerashid Square

City

Hamadan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vic-Chancellor of Research and Technology, Hamadan University of Medical Sciences

Full name of responsible person

Heidar Tavilani

Street address

Hamadan University of Medical Sciences, Shahid Fahmide Ave

City

Hamadan

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Vic-Chancellor of Research and Technology, Hamadan 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

Hamadan University of Medical Sciences

Full name of responsible person

Mehdi Zandian

Position

MD, PhD of Ophthalmology / Assistant professor of Ophthalmology

Other areas of specialty/work

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Person responsible for updating data

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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