

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 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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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