

Clinical Trial Protocol

Iranian Registry of Clinical Trials

23 Jun 2026

The effect of eye patching on the improvement of corneal epithelial layer and clinical symptoms in patients with UV keratitis

Protocol summary

Summary

Repetitive contacts with UV-ray result in a shallow and painful keratopathy which takes place 6 hours after the contact with ray. It is generally agreed among the ophthalmologists that curing the minimal injuries (less than 60%) must be through chloramphenicol drop, erythromycin ointment and one cycloplegic drop in order to reduce the ciliary body spasm, and applying the bandage is still doubtful. In recent years the theory of not applying bandage on cornea injuries is becoming widely popular. The main goal of this study is designation the effect of eye patching on the improvement of corneal epithelial layer and clinical symptoms in patients with u.v keratitis. This study is one side blind in this way that examiner don't know who of patient patch.at the first patient come to emergency unit and then visit by doctor and demolition of epithelial layer, visual actueness , pain, redness and tearing was measured with the special scalesl and patient Randomly placed into two groups one group with patch and other without patch. in both group we use drop cholobiotic and drop homatropine 2% and eye oint erythromycin in both of eyes and patient in patching group patch up and both group give training book.we follow up patient and after 12 hours demolition of epithelial layer and all symptoms check again. Entering criteria of this study are:1. satisfaction for partnership in this study 2. Keratitis at the result of u.v 3.does not exist foreign body in eyes and exit criteria are unwillingness for partnership in this study and no readmission after 12 hours. the main intervention of this study is patching. after 12 hours demolition of epithelial layer and all symptoms check again and they are compared with each other.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015092124124N1**

Registration date: **2015-10-27, 1394/08/05**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-10-27, 1394/08/05

Registrant information

Name

Abolfazl Rahmaninejad

Name of organization / entity

Gonabad University of Medical Sciences

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Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Gonabad University of Medical Sciences

Expected recruitment start date

2015-08-22, 1394/05/31

Expected recruitment end date

2015-10-22, 1394/07/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of eye patching on the improvement of corneal epithelial layer and clinical symptoms in patients with UV keratitis

Public title

The effect of eye patching on the improvement of corneal epithelial layer and clinical symptoms in patients with UV keratitis

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: being satisfied to attend the study; the resultant keratitis of UV-ray in both eyes; using no effective drugs on clinical symptoms and curing the eye epithelial layer before going to the hospital (Anestocaine, Naphazoline and ...); aged 15-65 years old; ability to see through both eyes; no external material or any effective disease on the eye keratitis; no doctor prescription on eye bandaging or dressing. Exclusion criteria: no intention to continue to attend in the study in any of levels; not getting back after 12 hours; not following the therapeutic protocol; using the effective drugs on eye during the study due to any reason except the precribed ones.

Age

From **15 years** old to **60 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **99**

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**

Gonabad University of Medical Sciences

Street address

Gonabad University of Medical Sciences, Sento road

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Gonabad

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9691793718

Approval date

2015-03-11, 1393/12/20

Ethics committee reference number

GMU.REC.1393.142

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

Ultra violet Keratitis

ICD-10 code

H16

ICD-10 code description

Keratitis

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

the improvement of corneal epithelial layer

Timepoint

before and after intervition

Method of measurement

Examination

2**Description**

pain

Timepoint

before and after intervition

Method of measurement

Visual scale of pain

3**Description**

visual actueness

Timepoint

before and after intervition

Method of measurement

snelen chart

4**Description**

Redness

Timepoint

before and after intervition

Method of measurement

observation

5**Description**

tearing

Timepoint

before and after intervition

Method of measurement

tear break up time test

Secondary outcomes

1

Description

Improve epithelium

Timepoint

before and after intervition

Method of measurement

Determination Examination (mm)

Intervention groups

1

Description

use drop cholobiotic and drop homatropine 2% and eye oint erythromycineyes patching in patch group

Category

Treatment - Other

2

Description

use drop cholobiotic and drop homatropine 2% and eye oint erythromycin and dont patch in group without patch.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Khatam hospital

Full name of responsible person

Abolfazl Rahmaniezhad-studene of Master of Nursing Surgical

Street address

Gharani blv., Mashhad

City

Mashhad

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Gonabad University of Medical Sciences

Full name of responsible person

Dr. Ali Mohammad Pour - Vice Chancellor for Research

Street address

Gonabad University of Medical Sciences, Sento road

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Gonabad

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Gonabad 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

Gonabad University of Medical Sciences

Full name of responsible person

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Position

student of Master of Nursing Surgical

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