Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

Compare the effect of hydroquinone 4% and 20% Zlvyyk acid in the treatment of melasma

Protocol summary

Summary

(1) Mean (Melasma area & severity Index) MASI Score in two groups of patients treated with hydroquinone and azelaic acid at intervals of zero, one, two and four months after the start of treatment, (2) This randomized, double-blind, single-center to compare the efficacy four percent hydroquinone treatment with azelaic acid 20% in patients with a clinical diagnosis of melasma melasma from February 94 to February 95 referred to dermatology clinic of Hamedan farshchian done, (3) the number of patients studied 44 people divided into two groups and drug hydroquinone and azelaic for a group to another group used, (4) Exclusion criteria: Patients who are pregnant or breastfeeding. Patients who are treated with anticonvulsant and corticosteroid drugs. Patients who are treated with OCP. Out Worker's patients. Patients who have a history of sensitivity to AZ or HQ. (5) hydroquinone and azelaic acid, each for a group of drugs used, (6) the amount of recovery based on the benchmark MASI periods of zero, one month, two months and four months after Sharveh treatment with azelaic acid groups and In both groups is hydroquinone.

General information

Acronym

-

IRCT registration information

IRCT registration number: **IRCT2014110919885N1**
Registration date: **2016-01-31, 1394/11/11**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2016-01-31, 1394/11/11

Registrant information

Name

Hazhir Seifpanahi-Shabani

Name of organization / entity

Hamadan University of Medical Sciences and Health Services

Country

Iran (Islamic Republic of)

Phone

+98 81 3838 0315

Email address

h.seifpanahi@umsha.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research Hamadan University of Medical Sciences.

Expected recruitment start date

2016-01-21, 1394/11/01

Expected recruitment end date

2017-01-20, 1395/11/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Compare the effect of hydroquinone 4% and 20% Zlvyyk acid in the treatment of melasma

Public title

treatment of melasma

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: melasma patients with a clinical diagnosis. Exclusion criteria: Patients who are pregnant or breastfeeding; Patients who are treated with anticonvulsant and corticosteroid drugs; Patients who are

treated with OCP; Out Worker's patients; Patients who have a history of sensitivity to AZ or HQ; Patients with underlying systemic disease (hypothyroidism and liver function Diss) are; Patients who have used a local drug during the previous month.

Age
No age limit

Gender
Both

Phase
2-3

Groups that have been masked
No information

Sample size
Target sample size: **44**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features
Table of random numbers

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ethics committee of Hamadan university of medical science

Street address
Hamadan

City
Hamadan

Postal code

Approval date
2014-01-21, 1392/11/01

Ethics committee reference number
16/35/9/3584/پ

Health conditions studied

1

Description of health condition studied
melasma

ICD-10 code
L81.1

ICD-10 code description
Chloasma

Primary outcomes

1

Description
MASI score

Timepoint
0, 1, 2 and 4 months

Method of measurement
checklist

Secondary outcomes

1

Description
-

Timepoint
-

Method of measurement
-

Intervention groups

1

Description
Intervention group 2: Hydroquinone 4%, will be used once a day for 4 months. Manufacturing by Behvazan Pharmaceutical Company.

Category
Treatment - Drugs

2

Description
Intervention group 1: Azelaic acid 20%, to be applied once a day for 4 months. Manufacturing by Sepidaj Pharmaceutical Companies.

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Hamadan Farshchian Sina Hospital

Full name of responsible person
Dr Mozhgan Bahadori

Street address
Farshchian Sinai Medical Center, Street Mirzadeh Love, Hamedan.

City
Hamadan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Vice Chancellor for Research, Hamadan university of medical science

Full name of responsible person
Mrs Yadollahzadeh

Street address
Vice chancellor for research Hamadan University of Medical Sciences, Street Shahid Fahmideh, Hamadan.

City
Hamadan

Grant name
-

Grant code / Reference number
-

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

Title of funding source
Vice Chancellor for Research, Hamadan university of medical science

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
Department of Dermatology University of Medical Sciences

Full name of responsible person
Dr Mozhgan Bahadori

Position
Dermatology Resident

Other areas of specialty/work

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Person responsible for scientific inquiries

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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