

Clinical Trial Protocol

Iranian Registry of Clinical Trials

28 May 2026

Compare the effect of hydroquinone 4% and 20% Zlvyk 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% Zlvyk 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 Mozghan 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**Street address**

Farshchian Sinai Medical Center, Street Mirzadeh Love, Hamedan.

City

Hamadan

Postal code**Phone**

+98 81 3828 0283

Fax**Email**

h.seifpanahi@umsha.ac.ir

Web page address

Person responsible for scientific

inquiries

Contact**Name of organization / entity**

Department of Dermatology University of Medical Sciences

Full name of responsible person

Dr Mozhgan Bahadori

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Person responsible for updating data

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Fax**Email****Web page address**

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