

Clinical Trial Protocol

Iranian Registry of Clinical Trials

03 Jun 2026

Comparision the effect of local application of parsley (petroselinium crispum) with hydroquinone cream on reduction the severity of epidermal melasma: A randomized clinical trial

Protocol summary

Summary

The purpose of this study is the comparison the effect of local application of parsley (petroselinium crispum) and hydroquinone cream on reduction of the severity of epidermal melasma. In this study, 70 women will be selected of Health Care Centers . Samples based on a random allocation method (Balanced Blocking Randomization) will be divided into 2 groups of control and intervention. . Inclusion criteria include: having of epidermal melasma, non-pregnant; Not lactating, no history of allergy to hydroquinone and parsley. Exclusion criteria include: pregnancy occurs; allergy to hydroquinone and parsley. Intervention group parsley tai land the control group 4% hydroquinone cream will be used locally every night . The main variables is parsley and hydroquinone cream that their effect will be evaluated on redusing the severity of epidermal melasma.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014070518358N1**
Registration date: **2014-08-01, 1393/05/10**
Registratation timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-08-01, 1393/05/10

Registrant information

Name

Vahide Ramezani

Name of organization / entity

Gonabad University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 53 3722 3028

Email address

ramezani.v@gmu.ac.ir

Recruitment status

Recruitment complete

Funding source

Funded by investigator and Chancellor for research, Gonabad University of Medical Sciences.

Expected recruitment start date

2014-07-23, 1393/05/01

Expected recruitment end date

2014-11-21, 1393/08/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparision the effect of local application of parsley (petroselinium crispum) with hydroquinone cream on reduction the severity of epidermal melasma: A randomized clinical trial

Public title

Comparision the effect of local application of parsley (petroselinium crispum) with hydroquinone cream on reduction the severity of epidermal melasma

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Women 50-15 years old (childbearing age); willingness to cooperate in the project; having of epidermal melasma, non-pregnant; Not lactating, not

using anti-smudge drugs in the past 30 days , non-contraceptive therapy during the study;No history of epilepsy, liver, thyroid and asthma diseases, no history of allergy to hydroquinone, the lack of any kind of sensitivity to the families Apiaceae plants such as carrots, celery and parsley; not employed in occupations requiring long-term exposure to sunlight (farmers and laborers); Exclusion criteria: pregnancy occurs; sensitivity to hydrocarbons and parsley ; diseases affecting the severity of skin disease and treatment interaction, unwillingness to continue treatment.

Age

From **15 years** old to **50 years** old

Gender

Female

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **70**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Gonabad University of Medical Sciences

Street address

Gonabad University of Medical Sciences, Next to the Asian Road

City

Gonabad

Postal code

Approval date

2014-06-25, 1393/04/04

Ethics committee reference number

GMU.REC.1393.56

Health conditions studied

1

Description of health condition studied

epidermal melasma

ICD-10 code

L81.1

ICD-10 code description

Chloasma

Primary outcomes

1

Description

epidermal melasma

Timepoint

before and after intervention.

Method of measurement

The melasma severity index and wood lamp

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group will be received parsley tail((20 g parsley for 5 minutes in a liter of boiling water, brewed, smooth and leave to cool) to 8 weeks topically once at night.

Category

Treatment - Other

2

Description

Control group will be received hydroquinone cream to 8 weeks to receive Thin layer and topically once at night.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Health Care Centers of Gonabad

Full name of responsible person

Vahide Ramezani

Street address

Gonabad University of Medical Sciences, Next to the Asian Road

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Gonabad

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research of Gonabad University of Medical Sciences

Full name of responsible person

Dr. Ali Mohammadpour

Street address

Gonabad University of Medical Sciences, Next to the Asian Road

City

Gonabad

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 of 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

Vahide Ramezani

Position

MSc. student in nursing education

Other areas of specialty/work

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Person responsible for scientific inquiries

Contact

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Full name of responsible person

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Person responsible for updating data

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MSC Student in Nursing Education

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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