

Clinical Trial Protocol

Iranian Registry of Clinical Trials

06 Jun 2026

Evaluation of the efficacy of topical ethyl vanillate in enhancing the effect of phototherapy against vitiligo

Protocol summary

Summary

One of the causes of vitiligo is accumulation of toxic H₂O₂ for melanocytes in epidermis. Because H₂O₂ is strong scavenger of ethyl vanillate, we decided to evaluate the enhancing efficacy of phototherapy via concomitant use of ethyl vanillate cream. It is a double blind, randomized, with placebo, monocentric study. 25 patients with generalized bilateral depigmented lesions are selected from phototherapy patients. Pregnant women, children under 6 years of age, patients with past history of skin cancer and patients taking immunosuppressive medications are excluded from study. Patients use 20 percent ethylvanillate cream on the lesions of one side and placebo on the other side (same place) twice daily. At the beginning and the end of 4th, 8th and 12th weeks, photo is taken from patient and the result is judged by vitiligo area severity index.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201107317160N1**

Registration date: **2012-03-03, 1390/12/13**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2012-03-03, 1390/12/13

Registrant information

Name

Nasrin Hamidzadeh

Name of organization / entity

Molecular Dermatology Research Center, Shiraz

University of Medical Sciences, Shiraz, Iran

Country

Iran (Islamic Republic of)

Phone

+98 71 3212 5592

Email address

hamidizade@sums.ac.ir

Recruitment status

Recruitment complete

Funding source

Shiraz university of medical sciences

Expected recruitment start date

2012-02-29, 1390/12/10

Expected recruitment end date

2012-04-08, 1391/01/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the efficacy of topical ethyl vanillate in enhancing the effect of phototherapy against vitiligo

Public title

Evaluation of the efficacy of topical ethyl vanillate in treatment of vitiligo

Purpose

Treatment

Inclusion/Exclusion criteria

Pateints with bilateral generalized depigmented lesions are selected among phototherapy patients. Pregnant women, children under 6 years of age, patients with past history of skin cancer, and patients taking immunosuppressive medications, are excluded from study.

Age

From **7 years** old to **100 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 25

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Shiraz university of medical sciences

Street address

Zand street

City

Shiraz

Postal code

71345-1978

Approval date

2012-02-09, 1390/11/20

Ethics committee reference number

CT-90-3321

Health conditions studied

1

Description of health condition studied

vitiligo

ICD-10 code

L80

ICD-10 code description

Vitiligo

Primary outcomes

1

Description

pigmentation of lesions

Timepoint

before intervention 1, 2, 3 months after intervention

Method of measurement

vitiligo area severity index scale

Secondary outcomes

1

Description

erythema of lesion

Timepoint

at the end of months 1, 2, 3 after intervention

Method of measurement

taking photo

Intervention groups

1

Description

topical ethyl vanillate 20 percent on the lesion of one side twice daily for 3months

Category

Treatment - Drugs

2

Description

topical eucerin (placebo) on the other side (same place) twice daily for 3 months

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Dermatology clinic, Shahid Faghihi hospital

Full name of responsible person

Amir Kalafi Shotorbani

Street address

Dermatology clinic, Faghihi hospital, Zand street

City

Shiraz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Shiraz university of medical sciences

Full name of responsible person

Gholamreza Hatam

Street address

Zand street

City

Shiraz

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, Shiraz 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

Shiraz university of medical sciences

Full name of responsible person

Amir Kalafi Shotorbani

Position

Dermatology resident/md

Other areas of specialty/work

Street address

Dermatology clinic, Faghihi hospital, Zand street

City

Shiraz

Postal code

7134844119

Phone

+98 71 1231 9049

Fax

+98 71 1233 1634

Email

kalafia@sums.ac.ir , amirkalafi@yahoo.com

Web page address

www.sums.ac.ir

Person responsible for scientific inquiries

Contact

Name of organization / entity

Shiraz university of medical sciences

Full name of responsible person

Amir Kalafi Shotorbani

Position

Dermatology resident/MD

Other areas of specialty/work

Street address

Dermatology clinic, Faghihi hospital, Zand street

City

Shiraz

Postal code

7134844119

Phone

+98 71 1231 9049

Fax

+98 71 1233 1634

Email

kalafia@sums.ac.ir , amirkalafi@yahoo.com

Web page address

www.sums.ac.ir

Person responsible for updating data

Contact

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