Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

The effect of hydro- alcoholic total extract of turmeric rhizomes on eczema

Protocol summary

Summary

Atopic dermatitis is a chronic and recurrent skin disorder which is associated with itchy rashes. Patients suffering with allergic reactions are more likely to be affected by this condition. The causes of this disease probably are genetic factors, immune system deficiency and presence of damaged skin barrier. Atopic dermatitis is treated with the wide ranges of oral and topical medications; however, major side effects are associated with these current agents. Based on several studies, Curcuma Longa can inhibit several inflammatory enzymes mainly involved in the inflammatory process of atopic dermatitis. Therefore, we have decided to target and use this well known herbal agent with fantastic safety as a novel topical formulation. The clinical and therapeutic benefit of this novel topical formulation was carried out on 40 patients with mild to moderate atopic dermatitis in a double-blind, placebo-controlled clinical trial. patients were instructed to apply the 5 % tumeric extract in microemulgel twice a day. Patients in control group applied microemulgel without tumeric extract. Erythema, dryness, burning, itching and other side effects evaluated using the quality of Life questionnaire and SCORAD as well as photos before and after treatment.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201503163106N23**
Registration date: **2015-04-22, 1394/02/02**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2015-04-22, 1394/02/02

Registrant information

Name

Farshad Hashemian

Name of organization / entity

Pharmaceutical Sciences Branch, Islamic Azad University (IAU)

Country

Iran (Islamic Republic of)

Phone

+98 21 2260 0037

Email address

hashemian.f@iaups.ac.ir

Recruitment status

Recruitment complete

Funding source

1- Pharmaceutical Sciences branch of Islamic Azad University, 2- investigators financial sources

Expected recruitment start date

2013-10-22, 1392/07/30

Expected recruitment end date

2014-10-22, 1393/07/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of hydro- alcoholic total extract of turmeric rhizomes on eczema

Public title

The effect of extract turmeric on eczema

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: age over 18 years old; both sexes; absence of infection or skin cancer; patients with mild & moderate plaque eczema which had been stable on

systemic treatment for at least 2 month; wash out period for topical anti eczema agent at least 2 weeks before clinical trial. Exclusion criteria: pregnancy; lactation; age under 18 years old; a history of sensitivity to the active ingredient or expedients; patient decision to leave the study.

Age
From **18 years** old to **70 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **40**

Randomization (investigator's opinion)
Not 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
Pharmaceutical science branch of Islamic Azad

Street address
No.99, Yakhchal street, Dr. Shariati Avenue

City
Tehran

Postal code
00982161192655

Approval date
2013-09-01, 1392/06/10

Ethics committee reference number
6563

Health conditions studied

1

Description of health condition studied
Atopic dermatitis

ICD-10 code
L20.0

ICD-10 code description
Besnier's prurigo

Primary outcomes

1

Description
Erythema

Timepoint
at the baseline, every 3 weeks up to 12 weeks

Method of measurement
photography: before,during &after treatment and questionnair of life of quality and scorad

2

Description
dryness

Timepoint
at the baseline, every 3 weeks up to 12 weeks

Method of measurement
photography: before,during &after treatment and questionnair of life of quality and scorad

3

Description
burning

Timepoint
at the baseline, every 3 weeks up to 12 weeks

Method of measurement
questionnair

4

Description
itching

Timepoint
at the baseline, every 3 weeks up to 12 weeks

Method of measurement
questionnair

Secondary outcomes

1

Description
side effects

Timepoint
at the baseline, every 3 weeks up to 12 weeks

Method of measurement
Questionnaire

Intervention groups

1

Description
Intervention group: 5 % tumeric extract in microemulgel. patients were instructed to apply the Herbal microemulgel twice a day

Category
Treatment - Drugs

2

Description
Control group: microemulgel without tumeric extract. patients were instructed to apply twice a day.
Category
Placebo

Recruitment centers

1

Recruitment center
Name of recruitment center
Imam khomaini hospital
Full name of responsible person
Dr. Parvin Mansouri
Street address
Imam Khomeini Hospial complex, Keshavarz blvd.
City
Tehran

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Islamic azad university of pharmaceutical sciense
Full name of responsible person
Dr. Sepideh Arbabi Bigdeli
Street address
No.99, Yakhchal street, Dr. Shariati Avenue Tehran
City
Tehran
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Islamic azad university of pharmaceutical sciense
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

Person responsible for scientific inquiries

Contact
Name of organization / entity
Pharmaceutical science branch of Islamic Azad university
Full name of responsible person
Dr. Mehdi Rajabi
Position
Assistant professor / Head of Department
Other areas of specialty/work
Street address
No.99, Yakhchal street, Dr. Shariati Avenue
City
Tehran
Postal code
Phone
+98 21 2246 0056
Fax
Email
mehdirj@aol.co.uk
Web page address

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