

Clinical Trial Protocol

Iranian Registry of Clinical Trials

11 Jun 2026

The effect of Glycyrrhiza glabra gel on Acne in Acne -Vulgaris patients

Protocol summary

Summary

The main goal of the current study is to determine the effect of licorice in treatment of acne in patients with acne vulgaris. The current study is a double-blinded clinical trial. The study was performed on 84 patients having acne vulgaris. Patients with acne vulgaris having comedone, papule, and pustule lesions on the face skin and age above 12 were included in the study. The exclusion criteria were age below 12, breastfeeding, pregnancy, and taking drugs such as oral and topical steroids and anticonvulsant drugs that are effective on development of acne. The patients were classified into two groups. One group received the routine treatment of oral doxycycline (200 mg/day) as one capsule every 12 hours plus 5% gel of total licorice extract applied to the face skin every other day, and the other group received oral doxycycline (200 mg/day) as one capsule every 12 hours plus placebo (gel vehicle) applied to the face skin once a day. One month after the treatment, the number of comedone, papule, and pustule lesions on the face skin were counted by the researcher and recorded in patients' files. Finally, the data obtained for the two groups were analyzed.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2012122411864N1**

Registration date: **2013-01-28, 1391/11/09**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2013-01-28, 1391/11/09

Registrant information

Name

Mahin Karimi

Name of organization / entity

Kurdistan university of medical sciences

Country

Iran (Islamic Republic of)

Phone

+98 87 1613 1412

Email address

mohamadreza.rahmani@muk.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Kurdistan University of Medical Sciences

Expected recruitment start date

2013-01-20, 1391/11/01

Expected recruitment end date

2015-01-21, 1393/11/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of Glycyrrhiza glabra gel on Acne in Acne -Vulgaris patients

Public title

The effect of Glycyrrhiza glabra gel on Acne in Acne -Vulgaris patients

Purpose

Treatment

Inclusion/Exclusion criteria

The major inclusion criteria: age above 12 years old; inflammatory acne of the face papule and/or pustules. The major exclusion criteria: should not have under 12 years; nor lactation; nor pregnancy; nor received Topical and oral steroid and Anticonvulsant drugs.

Age

From **12 years** old to **70 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **84**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

1

Registry name

ندارد

Secondary trial Id

ندارد

Registration date

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee Kurdistan University of Medical Sciences

Street address

Kurdistan University of Medical Sciences, opposite the hotel shadi, University Campus, Sanandaj

City

Sanandaj

Postal code

66177-13446

Approval date

2012-12-30, 1391/10/10

Ethics committee reference number

34088/14

Health conditions studied

1

Description of health condition studied

Acne vulgaris

ICD-10 code

L70.0

ICD-10 code description

Acne vulgaris

Primary outcomes

1

Description

Comodon, postule and papule number

Timepoint

Baseline and after the intervention period of 30 days

Method of measurement

Count

Secondary outcomes

1

Description

no

Timepoint

no

Method of measurement

no

Intervention groups

1

Description

Treatment groups: doxycycline and licorice gel 5%; Doxycycline 200 mg per day given. Taking the drug and gel once a day and Treatment for 1 month.

Category

Treatment - Drugs

2

Description

placebo groups: doxycycline and placebo ; Doxycycline 200 mg per day given. Taking the drug and gel once a day and Treatment for 1 month.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Dermatology clinic Bessat, Sanandaj

Full name of responsible person

Mohamadreza Rahmani

Street address

Farmer Street, besat Hospital ; Sanandaj

City

Sanandaj

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Kurdistan University of Medical Sciences

Full name of responsible person

Fardin Gharibi

Street address

Kurdistan University of Medical Sciences, opposite the Hotel Shadi, University Campus, Sanandaj

City

Sanandaj

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, Kurdistan 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**

Kurdistan University of Medical Sciences

Full name of responsible person

Mohamadreza Rahmani

Position

Ph.D of Immunology

Other areas of specialty/work**Street address**

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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