

# 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**

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

**City**

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**Web page address**

### Person responsible for scientific inquiries

**Contact****Name of organization / entity**

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**Full name of responsible person**

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### Person responsible for updating data

**Contact****Name of organization / entity**

Kurdistan University of Medical Sciences

**Full name of responsible person**

Mahin Karimi

**Position**

Student Laboratory Science

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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*