Clinical Trial Protocol
Iranian Registry of Clinical Trials

09 Nov 2026

Comparison of the effectiveness of doxycycline capsules with and without curcumin capsules in the treatment of patients with acne vulgaris

Protocol summary

Study aim
Comparison of the effectiveness of doxycycline capsules with and without curcumin capsules in the treatment of patients with acne vulgaris

Design
A controlled clinical trial with a parallel group design on 200 patients. Patient allocation will be done using a random draw method.

Settings and conduct
Location of this study: Dermatology Clinic, Razi Hospital, Ilam City, Study population: Patients with acne vulgaris, Blinding is not performed in this study.

Participants/Inclusion and exclusion criteria
Inclusion criteria: Moderate to severe acne vulgaris and consent to participate in the study. Exclusion criteria: Prescription of topical or systemic medications that could potentially interfere with our treatment course, anti-acne treatment in the past two weeks, symptoms of hyperandrogenism, irregular menstrual cycles, acne fulminans, acne conglobata, liver dysfunction.

Intervention groups
The intervention group initially received medications containing 100 mg of doxycycline and labeled A, while the control group received 100 mg of doxycycline + 500 mg of curcumin in a capsule shell and labeled B.

Main outcome variables
Facial inflammatory lesions GAGS Global Acne Severity Scoring System

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20250412065291N2**
Registration date: **2025-09-29, 1404/07/07**
Registration timing: **retrospective**
Last update: **2025-09-29, 1404/07/07**
Update count: **0**

Registration date
2025-09-29, 1404/07/07

Registrant information

Name
elham shafiei

Name of organization / entity

Country
Iran (Islamic Republic of)

Phone
+98 84 3222 3721

Email address
eshafiei1524@gmail.com

Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2024-05-25, 1403/03/05

Expected recruitment end date
2025-09-22, 1404/06/31

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
Comparison of the effectiveness of doxycycline capsules with and without curcumin capsules in the treatment of patients with acne vulgaris

Public title
Studying the effect of curcumin on acne

Purpose
Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Having moderate to severe acne vulgaris consenting to participate in the study

Exclusion criteria:

Prescription of topical or systemic medications that could potentially interfere with our treatment course Anti-acne treatment in the past two weeks Symptoms of hyperandrogenism Irregular menstrual cycles Acne fulminans Acne conglobata Liver dysfunction

Age

No age limit

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **200**

Randomization (investigator's opinion)

Randomized

Randomization description

Random allocation through drawing a piece of paper from a bag: First, 100 letters A and 100 letters B are written on special papers that contents are not visible. Then all of them are placed in a bag and for each patient, after obtaining informed consent, a paper is taken out randomly and without replacement, and based on the letter written on it, the desired intervention is performed for the patient. In addition, interventions A or B are determined by drawing a card.

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 Ilam University of Medical Sciences

Street address

Banganjab-Ilam university of medical science

City

Ilam

Province

Ilam

Postal code

6931854919

Approval date

2024-03-11, 1402/12/21

Ethics committee reference number

IR.MEDILAM.REC.1402.289

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

Area of acne scars

Timepoint

Measurement of inflammatory lesions 3 months after intervention

Method of measurement

Measuring with a ruler

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Patients in Group A will receive 100 mg of doxycycline. The medication will be prescribed for 12 weeks, with participants taking one capsule daily in the morning on an empty stomach.

Category

Treatment - Drugs

2

Description

Control group: Patients in group B will receive a capsule containing 100 mg of doxycycline and 500 mg of curcumin. The medication will be prescribed for 12 weeks, with participants taking one capsule daily in the morning on an empty stomach.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam KHomeini hospital

Full name of responsible person

Shokofeh Sharifi

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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Ilam University of Medical Sciences
Full name of responsible person
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Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Ilam University of Medical Sciences
Proportion provided by this source
100
Public or private sector
Public
Domestic or foreign origin
Domestic
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
Academic

Person responsible for general inquiries

Contact
Name of organization / entity
Ilam University of Medical Sciences
Full name of responsible person
Shokofeh Sharifi
Position
Associate professor
Latest degree
Specialist
Other areas of specialty/work
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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available