

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Comparison of therapeutic effects of topical Azithromycin , Erythromycin and Clindamycin for the treatment of acne vulgaris

Protocol summary

Summary

Different types of therapeutic regimens have been introduced for the treatment of Acne Vulgaris. One of the most common therapeutic methods is application of local antibiotics. The aim of this study was to compare the therapeutic effect of local Azithromycin with current local antibiotic regimens such as Clindamycin, and Erythromycin in the treatment of mild to moderate Acne Vulgaris. In this, randomized double-blind clinical trial, 96 patients with Acne Vulgaris was allocated into three groups. Pregnant and breast feeding women, children younger than 10 years, patients with severe acne or previous anti-acne therapy in recent 4 weeks and patients using acne-inducing drugs were excluded. 2% alcoholic solution of Azithromycin, Erythromycin, and Clindamycin were prescribed to three groups under study for a 16-week period. Inflammatory and non-inflammatory lesions were counted, and the side effects assessed and recorded monthly during the study period.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138706231245N1**
Registration date: **2009-04-19, 1388/01/30**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2009-04-19, 1388/01/30

Registrant information

Name

Zohreh Hajheidari

Name of organization / entity

Mazandaran University Of Medical Sciences(Vice-

chancellor for research)

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Recruitment status

Recruitment complete

Funding source

Mazandaran University of Medical Sciences(Vice-chancellor for Research)

Expected recruitment start date

2006-04-30, 1385/02/10

Expected recruitment end date

2007-04-30, 1386/02/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of therapeutic effects of topical Azithromycin , Erythromycin and Clindamycin for the treatment of acne vulgaris

Public title

The treatment of Acne Vulgaris

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Presence of mild to moderate Acne Vulgaris (up to 10 comedons, papular and/or pustular lesions). Exclusion criteria: pregnant and breast feeding women, children younger than 10 years old, severe cases of acne (existence of nodules and cysts), receiving anti acne during four weeks prior to study, taking acne creating drugs such as oral or local steroids, vitamin B12,

anticonvulsive drugs.

Age

From **10 years** old to **80 years** old

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **96**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Other

Other design features

Secondary Ids

1

Registry name

Secondary trial Id

Registration date

2017-11-21, 1396/08/30

Ethics committees

1

Ethics committee

Name of ethics committee

Mazndaran University of Medical Sciences (Vice-chancellor for Research)

Street address

No. 2 University building, Moallem square

City

Sari

Postal code

4817844718

Approval date

2007-04-30, 1386/02/10

Ethics committee reference number

24-85

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

Inflammatory and noninflammatory lesions

Timepoint

Baseline and after 2,4,8, and 12 weeks

Method of measurement

counting lesions using manual lens

Secondary outcomes

1

Description

Reduction of lesions inflammatory and noninflammatory

Timepoint

Baseline and after 2, 4, 6, and 8 weeks

Method of measurement

ASI formula and total count rate

Intervention groups

1

Description

Topical Azithromycin, 2% alcohol solution, two times daily on the clean skin for 3 months

Category

Treatment - Drugs

2

Description

Topical Erythromycin and Clindamycin, 2% alcohol solution, two times daily on the clean skin for 3 months

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Boo-Ali hospital and Dermatology offices in Sari

Full name of responsible person

Street address

Boali hospital, Pasdaran boulevard, Emam square

City

Sari

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Mazandaran University of Medical Sciences

Full name of responsible person

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Emam square ,valie- asr boulevard
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Grant name
30121
Grant code / Reference number
10506
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Mazandaran 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

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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