Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

Comparison of theraputic 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 pervious 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)

Country

Iran (Islamic Republic of)

Phone

+98 15 1325 7230

Email address

zhajheidari@mazums.ac.ir

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 theraputic 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

Dr Zohreh Hajheidari

Street address

Emam square ,valie- asr boulevard

City

Sari

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

Person responsible for general inquiries

Contact

Name of organization / entity

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

Full name of responsible person

Ravanbakhsh Esmaeeli

Position

Research adminstrator /Master of science on Nursing

Other areas of specialty/work

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Person responsible for scientific inquiries

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Full name of responsible person

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Position

Skin and hair Specialist

Other areas of specialty/work

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Person responsible for updating data

Contact

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Full name of responsible person

Zahra foroughi

Position

Librarian

Other areas of specialty/work

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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