

# 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)

##### 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 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

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**  
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Mazandaran University of Medical Sciences(Vice-  
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Ravanbakhsh Esmaeeli  
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Research administrator /Master of science on Nursing  
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## Person responsible for scientific inquiries

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Skin and hair Specialist  
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## Person responsible for updating data

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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*