

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### Therapeutic effects of topical minoxidil in comparison with topical minoxidil plus topical rosemary on treatment of alopecia areata

#### Protocol summary

##### Summary

Background and objectives: Considering prevalence of alopecia areata and its complications, failure of treatment and unknown pathogenesis of this illness, a comparative study took place by using topical minoxidil 2% and topical rosemary solution for treatment of this disease. Materials and method: patients with alopecia areata were divided into 4 groups by random permutation, each group contained 50 patients. Group 1 received combination of topical minoxidil 2% and topical rosemary, group 2 received only topical minoxidil 2% solution, group 3 received only topical rosemary solution and 4th group was control group, where the patients did not received any treatment and just rubbed the site of disease for the same period of time. The patients were under observation for one year.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2014061618116N1**

Registration date: **2014-07-03, 1393/04/12**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2014-07-03, 1393/04/12

##### Registrant information

###### Name

Mahshid Ghodrat

###### Name of organization / entity

Fasa University of Medical Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 71 1624 5127

###### Email address

m.ghodrat@fums.ac.ir

###### Recruitment status

**Recruitment complete**

###### Funding source

Fasa University of Medical Sciences

###### Expected recruitment start date

2012-03-05, 1390/12/15

###### Expected recruitment end date

2013-03-06, 1391/12/16

###### Actual recruitment start date

empty

###### Actual recruitment end date

empty

###### Trial completion date

empty

###### Scientific title

Therapeutic effects of topical minoxidil in comparison with topical minoxidil plus topical rosemary on treatment of alopecia areata

###### Public title

Therapeutic effects of topical rosemary on treatment of alopecia

###### Purpose

Treatment

###### Inclusion/Exclusion criteria

Inclusion criteria: the patient has alopecia areata; disease duration less than 6 months. Exclusion criteria: the patient has another sort of alopecia such as fungal disease; special illnesses such as malignancy and cancer.

###### Age

No age limit

###### Gender

Both

###### Phase

2

## Groups that have been masked

No information

## Sample size

Target sample size: **200**

## Randomization (investigator's opinion)

Randomized

## Randomization description

## 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

Fasa University of Medical Sciences

##### Street address

Fasa University of Medical Sciences, Ebne Sina square

##### City

fasa

##### Postal code

#### Approval date

2012-03-04, 1390/12/14

#### Ethics committee reference number

e-09202

## Health conditions studied

### 1

#### Description of health condition studied

Alopecia areata

#### ICD-10 code

L63

#### ICD-10 code description

Alopecia areata

## Primary outcomes

### 1

#### Description

Terminal hair growth

#### Timepoint

Before study, 1 month after starting the study, monthly during the study, 3 months after study

#### Method of measurement

Questionnaire, observation

## Secondary outcomes

### 1

#### Description

Skin dermatitis

#### Timepoint

1month after starting the study, monthly during the study

#### Method of measurement

Observation

## Intervention groups

### 1

#### Description

Minoxidil solution 2% (including 20 mg minoxidil in 1 ml solution of ethylene glycerol and water)twice a day - 8- 10 drop on area measuring about 3- 4 cm . and for better absorption massaging the area for 10 min. dosage of solutions was changeable due to size of area of involvement. after usage avoid washing the area for 2 hours

#### Category

Treatment - Drugs

### 2

#### Description

Rosemary solution(including 3.7 mg sineolin 1 ml solution of aqua and jojoba oil and grapes oil) twice a day - 8- 10 drop on area measuring about 3- 4 cm . and for better absorption massaging the area for 10 min. dosage of solutions was changeable due to size of area of involvement. after usage avoid washing the area for 2 hours

#### Category

Treatment - Drugs

### 3

#### Description

Combination of rosemary solution and minoxidil 2% solution minoxidil solution 2% (including 20 mg minoxidil in 1 ml solution of ethylene glycerol and water) rosemary solution(including 3.7 mg sineolin 1 ml solution of aqua and jojoba oil and grapes oil)twice a day - 8- 10 drop on area measuring about 3- 4 cm . and for better absorption massaging the area for 10 min. dosage of solutions was changeable due to size of area of involvement. after usage avoid washing the area for 2 hours

#### Category

Treatment - Drugs

### 4

#### Description

Control group: massaging the involved area twice a day for 10 min without using any medication on site of disease.

#### Category

N/A

## Recruitment centers

1

### Recruitment center

**Name of recruitment center**

Fasa Hamze clinic

**Full name of responsible person**

Ghorbanali Bordbar

**Street address**

Mahdie street- Phase 3- Fasa

**City**

Fasa

## Sponsors / Funding sources

1

### Sponsor

**Name of organization / entity**

Fasa University of Medical Sciences

**Full name of responsible person**

Ehsan Bahramali

**Street address**

fasa university of medical sciences deputy of  
research-ebne sina square-fasa

**City**

Fasa

**Grant name**

**Grant code / Reference number**

**Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

Fasa 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**

Fasa University of Medical Sciences

**Full name of responsible person**

Mahshid Ghodrat

**Position**

General practitioner

**Other areas of specialty/work**

**Street address**

apartment 48/134-shariati street- maliabad-shiraz

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## Person responsible for scientific inquiries

### Contact

**Name of organization / entity**

Fasa University of Medical Sciences

**Full name of responsible person**

Mohammad Hassan Lohrasb

**Position**

Dermatologist

**Other areas of specialty/work**

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## Person responsible for updating data

### Contact

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Medical student

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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*