

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

02 Jun 2026

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

#### Protocol summary

##### Summary

Abstract Background and objectives: Alopecia areata is a chronic, inflammatory disease characterized by rapid onset of total hair loss in a sharply defined; usually round area in any hair bearing area. This disease accounts for 0.7 - 3 percent of patients seen by dermatologist. There is no definite treatment for it, therefore the efficacy of minoxidil solution and the combination of this solution with rosemary for treatment of alopecia areata was investigated in this study. Materials and method: In this clinical trial 100 patients with alopecia areata referred to Hamzeh polyclinic in Fasa (south of Iran) during 2012-2013, were divided into 2 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 solution for about six months.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2014073118116N2**

Registration date: **2014-08-02, 1393/05/11**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2014-08-02, 1393/05/11

##### 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

2011-12-31, 1390/10/10

##### Expected recruitment end date

2012-12-31, 1391/10/11

##### 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: 1. The patient has alopecia areata regardless of the site of disease. 2. The patient's duration of disease is less than 1 year. 3. The patient is from Fars province in Iran. Exclusion criteria: 1. The patient has other kinds of alopecia rather than alopecia areata such as: alopecia induced by chemotherapy, tinea capitis and fungal diseases, trichotillomania and etc. 2. The patient has alopecia universalis. 3. The patient has special diseases such as cancer. 4. The patients with open wound or scar and loss of integrity of skin in the

site of the disease

**Age**

No age limit

**Gender**

Both

**Phase**

2

**Groups that have been masked**

No information

**Sample size**

Target sample size: **100**

**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 deputy of research

**Street address**

Fasa University of Medical Sciences, Ebne Sina square, fasa, fars, iran

**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****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**

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 oiltwice 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

**Recruitment centers****1****Recruitment center****Name of recruitment center**

Fasa Hamzeh clinic

**Full name of responsible person**

Ghorbanali Bordbar

**Street address**

hamzeh clinic-mahdie street- Fasa-iran

**City**

Fasa

## Sponsors / Funding sources

1

### Sponsor

**Name of organization / entity**

fasa university of medical sciences deputy of research

**Full name of responsible person**

Dr Ehsan Bahramalid

**Street address**

Iran-Fars-Fasa\_ebne sina square-fasa university of medical sciences deputy of research

**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 deputy of research

**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**

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## Person responsible for scientific inquiries

**Contact****Name of organization / entity**

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**Full name of responsible person**

Mohammad Hassan Lohrasb

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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*