

Clinical Trial Protocol

Iranian Registry of Clinical Trials

04 Jun 2026

Comparison of the effectiveness of Minoxidil 5% solution, Cetirizine 1% solution and Diclofenac 3% solution in treatment of androgenic alopecia

Protocol summary

Study aim

compared efficacy of minoxidil, cetirizine and diclofenac in androgenic alopecia

Design

3 group, each group contain 18 people

Settings and conduct

At the beginning we visited our patient in Loqman and Shohadaye Tajrish hospital.

Participants/Inclusion and exclusion criteria

men between 18 and 72 years old without systemic disease

Intervention groups

Control group: treatment with minoxidil solution 5% First group: treatment with cetirizine 1% second group: treatment with diclofenac 3%

Main outcome variables

effect of treatment with 3 drugs during 4 months

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20190511043547N1**

Registration date: **2019-12-16, 1398/09/25**

Registration timing: **registered_while_recruiting**

Last update: **2019-12-16, 1398/09/25**

Update count: **0**

Registration date

2019-12-16, 1398/09/25

Registrant information

Name

Nastaran Namazi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 2274 1507

Email address

nastaran.namazi.md@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-07-23, 1398/05/01

Expected recruitment end date

2020-02-20, 1398/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effectiveness of Minoxidil 5% solution, Cetirizine 1% solution and Diclofenac 3% solution in treatment of androgenic alopecia

Public title

Comparison of the Effectiveness of Minoxidil, Cetirizine 1% and Diclofenac 3% in treatment of androgenic alopecia

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

18-60 years old men with androgenetic alopecia No contraindication for topical treatment

Exclusion criteria:

systemic disease use of other drug in treatment of androgenic alopecia other pattern of hair loss

Age

From **18 years** old to **60 years** old

Gender

Male

Phase

3

Groups that have been masked

- Participant
- Outcome assessor

Sample size

Target sample size: **54**

Randomization (investigator's opinion)

Randomized

Randomization description

.Sampling and randomization are key elements in studies, especially interventional studies, and rely more on the results of the study, so that based on the standards accepted by journals and editors, one of the elements in the intervention study report clearly and completely. It has to be dealt with, it's a randomization. Random allocation is also one of the goals of bias elimination. One of the randomization methods using the RANDBETWEEN function is in Excel. This means that each patient is assigned to one of three treatments, respectively

Blinding (investigator's opinion)

Double blinded

Blinding description

Bottles are similar in shapes There is no drug names on the bottles The physician who takes the photos of patients scalp with fotofinder is blind to study The physician who evaluate outcomes is blind to study

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of shahid beheshti University of Medical Sciences

Street address

Shahid Arabi st,Shahid Chamran

City

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Province

Tehran

Postal code

1985717443

Approval date

2019-04-28, 1398/02/08

Ethics committee reference number

IR.SBMU.SRC.REC.1398.004

Health conditions studied

1

Description of health condition studied

androgenetic alopecia

ICD-10 code

L64

ICD-10 code description

androgenic alopecia

Primary outcomes

1

Description

severity of hair loss

Timepoint

0,after 2 and 4 months

Method of measurement

fotofinder

Secondary outcomes

empty

Intervention groups

1

Description

Cetirizine 1% solution made by the Shahid Beheshti faculty of pharmacy,1cc twice daily topically on the scalp

Category

Treatment - Drugs

2

Description

Diclofenac 3% solution made by the Shahid Beheshti faculty of pharmacy,1cc twice daily topically on the scalp

Category

Treatment - Drugs

3

Description

Minoxidil 5% solution made by the Shahid Beheshti faculty of pharmacy,1cc twice daily topically on the scalp

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Shohadaye Tajrish hospital

Full name of responsible person

Nastaran Namazi

Street address

Shohadaye Tajrish hospital,Tajrish SQ
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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Shahid Beheshti University of medical sciences
Full name of responsible person
Afshin Zarghi
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Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Shahid Beheshti University of medical sciences
Proportion provided by this source
100
Public or private sector
Public
Domestic or foreign origin
Domestic
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
Academic

Person responsible for general inquiries

Contact

Name of organization / entity
Shahid Beheshti University of Medical Sciences
Full name of responsible person
Namazi Nastaran
Position
Professor Assistant
Latest degree

Specialist
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Person responsible for updating data

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

there is no additional information

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

No - There is not a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available