

Clinical Trial Protocol

Iranian Registry of Clinical Trials

07 Jul 2026

Comparison of the efficacy of Spironolcatone 5% and Progesterone 2% on hair density and diameter in female pattern androgenetic alopecia

Protocol summary

Summary

The purpose of this study is to compare the effectiveness of topical spironolactone five percent with progesterone two percent in the treatment of patients with grade one or two female pattern androgenetic alopecia. This is a randomized; double-blind trial without a placebo and single center study. 72 patients diagnosed with grade one or two androgenetic alopecia will be enrolled in this study; patients will be randomized in two parallel groups. After obtaining informed consent from patients; patients will be divided into two groups. Group of patients will be treated for 24 weeks with spironolactone five percent and progesterone two percent. The patients will be examined bi monthly for 6 months. The examination will be included measurement of hair density per squared centimeters and hair diameter. Criteria for improvement; will be the increase hair numbers or increase hair diameter.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201512252581N4**

Registration date: **2016-12-14, 1395/09/24**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2016-12-14, 1395/09/24

Registrant information

Name

Hamide Herizchi

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Tabriz University of Medical Sciences

Expected recruitment start date

2015-12-22, 1394/10/01

Expected recruitment end date

2016-06-20, 1395/03/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the efficacy of Spironolcatone 5% and Progesterone 2% on hair density and diameter in female pattern androgenetic alopecia

Public title

Comparison of the efficacy of Spironolcatone 5% and Progesterone 2% on hair density and diameter in female pattern hair loss

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: female; grade 1 or 2 androgenetic alopecia; no underlying hormonal disorders Exclusion criteria: patient's decision to exit the study; underlying hormonal disorder; anemia; use of topical medications in the past week; taking oral medications in the past four weeks; have allergy to spironolactone or progesterone; pregnancy or planning to pregnancy or breastfeeding

Age

No age limit

Gender

Female

Phase

4

Groups that have been masked

No information

Sample size

Target sample size: 36

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Tabriz University of Medical Sciences

Street address

Third floor, Tabriz Medical Sciences University, Gholgasht ave

City

Tabriz

Postal code

Approval date

2015-06-08, 1394/03/18

Ethics committee reference number

tbzmed.rec.138.222

Health conditions studied

1

Description of health condition studied

Female pattern androgenetic alopecia

ICD-10 code

L64

ICD-10 code description

Androgenic alopecia

Primary outcomes

1

Description

Hair density per squared cm, Hair diameter

Timepoint

At baseline, 8th, 16th ,24th weeks

Method of measurement

Trichoscopy

Secondary outcomes

1

Description

Side effects

Timepoint

At baseline, 8th, 16th and 24th weeks

Method of measurement

Qualitative

Intervention groups

1

Description

Control group; Topical 2% Progesterone solution, twice a day for 24 weeks

Category

Treatment - Drugs

2

Description

Intervention group; Topical 5% Spironolactone solution, twice a day for 24 weeks

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Sina Hospital, Dermatology clinic

Full name of responsible person

Herizvhi ghadim Hamideh

Street address

Sina Hospital, Dermatology department

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for research, Tabriz University of Medical Sciences

Full name of responsible person

Rashidi Mohammad Reza

Street address

Golgasht Ave., Daneshgah St., Tabriz, Iran

City

Tabriz
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Vice Chancellor for research, Tabriz 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
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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