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 androgentic 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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+98 41 1336 4650

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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 Siences

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 andrpgenetic 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

Tabriz University of Medical Siences

Full name of responsible person

Herizchi ghadim Hamideh

Position

Dermatologist, associate professor

Other areas of specialty/work

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Person responsible for scientific inquiries

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Dermatology specialist, Associate professor

Other areas of specialty/work

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Other areas of specialty/work

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Web page address

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