

Clinical Trial Protocol

Iranian Registry of Clinical Trials

04 Aug 2026

Comparison the effect of plasma rich platelet with finastride and placebo on androgenic hair loss

Protocol summary

Summary

The aim of this study is to examine the effect of plasma rich platelet on androgenic hair loss. This effect is compared against the effect finastride and placebo. The sample consists of one hundred and twenty male patients aged 20 to 35 with androgenic hair loss hamilton grade 2 and 3, non of the selected patients has the systemic or scalp skin disease. subjects are randomly divided to three groups. The first group consisting of 30 patients, are to be treated with plasma rich platelet. The second group of the same size are to be treated with finastride on a daily dosage of 1 gram, whereas the third group, composed of 60 cases, receive placebo once a day and apply it on their head. This three groups are followed 3 and 6 months, and on each follow up session, photos are taken. By comparing these photos against the photos taken before the treatment, the amount of hair growth will be evaluated.

General information

Acronym

PRP(plasma rich platelet)

IRCT registration information

IRCT registration number: **IRCT2014062918210N2**

Registration date: **2014-09-17, 1393/06/26**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-09-17, 1393/06/26

Registrant information

Name

Elham Behrangi

Name of organization / entity

Iran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 6650 2040

Email address

behrangi.e@iums.ac.ir

Recruitment status

Recruitment complete

Funding source

Iran university

Expected recruitment start date

2013-01-31, 1391/11/12

Expected recruitment end date

2014-01-31, 1392/11/11

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison the effect of plasma rich platelet with finastride and placebo on androgenic hair loss

Public title

Evaluation the effect of blood platelet on androgenic hair loss

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: androgenic alopecia Hamilton grade 2 and 3; 20-35 years old men; normal laboratory tests of TSH, CBC AND ferritin ; do not use oral finastride or topical minoxidil for the last 3 months. Exclusion criteria: another systemic or topical disease on the scalp; use of telogen effluvium drugs; nutritional disease; scarring alopecia)

Age

From **20 years** old to **35 years** old

Gender

Male

Phase

2

Groups that have been masked*No information***Sample size**Target sample size: **120****Randomization (investigator's opinion)**

Randomized

Randomization description**Blinding (investigator's opinion)**

Not blinded

Blinding description**Placebo**

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethic committee of Iran University Of Medical science

Street address

Iran university -Hemat Highway

City

Tehran

Postal code

19922347512

Approval date

2014-06-15, 1393/03/25

Ethics committee reference number

92033024245101449

Health conditions studied**1****Description of health condition studied**

Androgenetic alopecia

ICD-10 code

L64.9

ICD-10 code description

Androgenetic alopecia

Primary outcomes**1****Description**

Androgenetic alopecia

Timepoint

3 months and 6months later

Method of measurement

Photography

Secondary outcomes**1****Description**

Hair growing

Timepoint

3months and 6 months later

Method of measurement

Photography

Intervention groups**1****Description**

Interventional group:plasma rich platelet,is uptaken from their blood after sentrifuge

Category

Treatment - Other

2**Description**

Control group1:take 1 miligram finastride daily

Category

Treatment - Drugs

3**Description**

Control group2:apply placebo once aday on their head,placebo composed of 25% alcohol and 75% N/S

Category

Placebo

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

Rasool Hospital

Full name of responsible person

Dr Elham Behrangi

Street address

Satarkhan st , Tehran

City

Tehran

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Vice Chancellor of Iran university of Medical science-Research committee

Full name of responsible person
Dr Morteza Naserbakht

Street address
Iran university_Hemat Highway

City
Tehran

Grant name
—

Grant code / Reference number
92033024245

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

Title of funding source
Vice Chancellor of Iran university of Medical science-
Research committee

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
Iran University of Medical Science

Full name of responsible person
Dr Elham Behrangi

Position
Professor

Other areas of specialty/work

Street address
Dermatology Department,Rasool Hospital,Satarkhan
Street

City
Tehran

Postal code
1445613131

Phone
+98 21 6650 2040

Fax
+98 21 6650 2040

Email
behrangi.e@iums.ac.ir

Web page address
www.iums.ir

Person responsible for scientific inquiries

Contact

Name of organization / entity
Iran University of Medical Science

Full name of responsible person

Dr elham behrangi

Position
Professor

Other areas of specialty/work

Street address
Dermatology Department-Rasool Hospital,Satarkhan
Street

City
Tehran

Postal code
1445613131

Phone
00

Fax
+98 21 6650 2040

Email
behrangi.e@iums.ac.ir

Web page address
www.iums.ir

Person responsible for updating data

Contact

Name of organization / entity
Iran University of Medical Science

Full name of responsible person
Dr Elham Behrangi

Position
Professor

Other areas of specialty/work

Street address
Dermatology Department, Rasool Hospital, Satarkhan
Street

City
Tehran

Postal code
1445613131

Phone
+98 21 6650 2040

Fax
+98 21 6650 2040

Email
behrangi.e@iums.ac.ir

Web page address
www.iums.ir

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