

Clinical Trial Protocol

Iranian Registry of Clinical Trials

02 Jul 2026

Clinical evaluation of platelet- rich plasma effect on androgenic alopecia in men aged 25-45 years

Protocol summary

Summary

Title: Effect of platelet-rich plasma (PRP) on androgenic alopecia in men 25-45 years. Specific objectives: to evaluate the effect of platelet-rich plasma in patients with androgenetic alopecia by age, starting for baldness, hair density before treatment and the extent of baldness. Methods: patients enrolled in the study, men who are 25 to 45 years with androgenic alopecia (AGA). 30 to 35 cc of blood is taken from them and using centrifugation to obtain platelet-rich plasma. For each patient, two regions with the lowest density of scalp hair have been selected. The area of each zone was 2.5 cm to 2.5 cm, and were 2.5 cm apart from each other and the extent of this area was identified by a tattoo. Injections are performed between the dermis and subcutaneous. Injections are administered on the first day and then repeated one month later. Afterwards, villous and terminal hair counts each region, determines the response to treatment. It takes place at the beginning of the study. Using a magnifying glass. And 1, 3 and 6 months after the regions will be counted. The beneficial effects of PRP in androgenic alopecia (AGA) can thus be attributed to various platelet-derived growth factors causing improvement in the function of hair follicle and promotion of hair growth. It is safe, cheap, and non-allergic and it appears to be a useful adjuvant in the management of AGA.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013072814190N1**
Registration date: **2013-08-21, 1392/05/30**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2013-08-21, 1392/05/30

Registrant information

Name

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Name of organization / entity

Ahvaz Jundishapur University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Ahvaz Jundishapur University of Medical Sciences, Vice Chancellor for Research and Technology

Expected recruitment start date

2013-02-19, 1391/12/01

Expected recruitment end date

2014-02-20, 1392/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Clinical evaluation of platelet- rich plasma effect on androgenic alopecia in men aged 25-45 years

Public title

Effect of Platelet-rich plasma treatment of male pattern baldness

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: androgenetic alopecia according to the following scales: men: Hamilton/Norwood Scale: grades Va- VII and possibility of follow-up during the study. Exclusion criteria: active inflammation or infection in the intervention area; presence of active systemic infections; background of cancerous or precancerous lesions; suffering from any serious blood disorders; to have undergone treatments for alopecia in the previous 6 months; previous hair implants; intake of drugs that affect hair loss; be undergoing immunosuppressive therapy and/or anticoagulants.

Age

From **25 years** old to **45 years** old

Gender

Male

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **19**

Randomization (investigator's opinion)

Randomized

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

Single blinded

Blinding description**Placebo**

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Ahwaz Ethic Committee of Jundishapur University of Medical Sciences

Street address

Esfand avenue, Golestan boulevard ,Ahwaz Jundishapur University of Medical Sciences

City

Ahwaz

Postal code

15794-61357

Approval date

2013-08-06, 1392/05/15

Ethics committee reference number

ajums.rec.1392.87

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

Androgenetic Alopecia

ICD-10 code

L64.9

ICD-10 code description

Androgenic alopecia, unspecified

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

Change from baseline in Hair density

Timepoint

6 month

Method of measurement

Hair density (number of hairs per cm²) will be measured for each case

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

Infection

Timepoint

1 weak after Injection

Method of measurement

Clinical

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

at the first, the Site was sterilized with alcohol, Using a 19-gauge needle, 10 ml of blood was collected in sterile conditions. afterwards, The sample was inserted in a disposable PRP kit. And Was shaken to mix the blood with the anticoagulant. Then placed in a centrifuge machine, Santryfyvzhshd speed of 3000 rpm for 6 minutes. When the plasma was separated from blood cells. The second time was centrifuged at a speed of 3300 rpm for 3 min. Thus, the plasma concentration of platelets (PRP) was obtained. Compared with the patient's blood platelet count was more than 5 times in the sample. Finally, Calcium gluconate was added to the PRP, And creates favorable conditions for injection. PRP was prepared by the Department of Dermatology, Imam Khomeini Hospital, Ahwaz. For each patient, two regions with the lowest density of scalp hair have been selected. the area of each zone was 2.5 cm to 2.5 cm, And were 2.5 cm apart from each other and the extent of this area was identified by a tattoo. Injections are performed between the dermis and subcutaneous.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Ahwaz Dermatology Center of Emam Khomeiny Hospital

Full name of responsible person

Dr Mohamad Ali Mapar

Street address

Esfand avenue, Golestan boulevard, Ahwaz Jundishapur University of Medical Sciences

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ahwaz Jundishapur University of Medical Sciences, Vice Chancellor for Research and technology

Full name of responsible person

Dr. Mostafa Fegghi

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Esfand avenue, Golestan boulevard, Ahwaz Jundishapur University of Medical Sciences

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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

Ahwaz Jundishapur University of Medical Sciences, Vice Chancellor for Research and technology

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

Ahwaz Jundishapur University of Medical Sciences

Full name of responsible person

Dr Sadegh shahryari

Position

Dermatology Resident

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Position

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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