Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 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 baldnes. 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, villouses 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
Mohammad Bahadoram
Name of organization / entity
Ahvaz Jundishapur University of Medical Sciences
Country
Iran (Islamic Republic of)
Phone
+98 61 1374 3011
Email address
bahadoram.m@ajums.ac.ir

Recruitment status

Recruitment complete

Funding source

Ahwaz 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 bulvard ,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 bulvard, Ahwaz Jundishapur University of Medical Sciences

City
Ahwaz

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 Feghhi

Street address
Esfand avenue, Golestan bulvard ,Ahwaz Jundishapur University of Medical Sciences

City
Ahwaz

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

Other areas of specialty/work

Street address
Esfand avenue, Golestan bulvard ,Ahwaz Jundishapur University of Medical Sciences

City
Ahwaz

Postal code

Phone
+98 61 1222 2114

Fax

Email
Sadegh_shahryari@yahoo.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity
Ahwaz Jundishapur University of Medical Sciences

Full name of responsible person
Dr Mohamad Ali Mapar

Position
Dermatologist

Other areas of specialty/work

Street address
Esfand avenue, Golestan bulvard ,Ahwaz Jundishapur University of Medical Sciences

City
Ahwaz

Postal code
6193673166

Phone
+98 61 1222 2114

Fax
+98 61 1292 1837

Email
Mapar@ajums.ac.ir

Web page address

Person responsible for updating data

Contact

Name of organization / entity
Ahwaz Jundishapur University of Medical Sciences

Full name of responsible person
Dr Mohamad Ali Mapar

Position
Dermatologist

Other areas of specialty/work

Street address
Esfand avenue, Golestan bulvard ,Ahwaz Jundishapur University of Medical Sciences

City
Ahwaz

Postal code
6193673166

Phone
+98 61 1222 2114

Fax
+98 61 1292 1837

Email
Mapar@ajums.ac.ir

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