

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jul 2026

Comparing the Effectiveness of Combined Treatment of Carboxy Therapy, Platelet-Rich Plasma (PRP) and Topical Finasteride with Platelet-Rich Plasma Plus Topical Finasteride, in the Treatment of Male Pattern Androgenic Hair Loss

Protocol summary

Study aim

Comparison of the Effectiveness of Combined Treatment of Carboxytherapy, Platelet-Rich Plasma (PRP) and Topical Finasteride with Platelet-Rich Plasma Plus Topical Finasteride, in the Treatment of Male Pattern Androgenic Hair Loss

Design

In Each Treatment Session, and then three Months after the end of the Treatment, the Ratio of Terminal Hair to Vulus, Hair Density Per Square Centimeter and Hair Diameter Were Measured by The Photofinder Device, and Macroscopic Photos were also taken of the Patient with a Camera and Compared. Be. Statistical Analysis is done by SPSS Version 22.

Settings and conduct

Afzalipour Hospital

Participants/Inclusion and exclusion criteria

It is Men Who Have Suffered Androgenic Hair Loss (Severity 2-4 according to the Hamilton-Norwood Criteria) without any Underlying Disease

Intervention groups

It is Men Who Have Suffered Androgenic Hair Loss (Severity 2-4 according to the Hamilton-Norwood Criteria) without any Underlying Disease.

Main outcome variables

Hair Loss Treatment

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20220919055994N1**

Registration date: **2023-05-26, 1402/03/05**

Registration timing: **prospective**

Last update: **2023-05-26, 1402/03/05**

Update count: **0**

Registration date

2023-05-26, 1402/03/05

Registrant information

Name

fatemeh rastaghi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 71 3872 0811

Email address

fatemeh_rastaghi@yahoo.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-07-21, 1402/04/30

Expected recruitment end date

2023-08-20, 1402/05/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing the Effectiveness of Combined Treatment of Carboxy Therapy, Platelet-Rich Plasma (PRP) and Topical Finasteride with Platelet-Rich Plasma Plus Topical Finasteride, in the Treatment of Male Pattern Androgenic Hair Loss

Public title

Effectiveness of Combined Treatment of Carboxytherapy, Platelet-Rich Plasma (PRP) and Local Finasteride with Platelet-Rich Plasma in the Treatment of Androgenic Hair Loss

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

It is Men Who Have Suffered Androgenic Hair Loss (Severity 2-4 according to the Hamilton-Norwood Criteria) without any Underlying Disease

Exclusion criteria:

Patients include Platelet Disorders, Thrombocytopenia, Anemia, Cardio-Pulmonary Diseases, Kidney Disease, Vasovagal Syncope, Uncontrolled Blood Pressure, Taking Anticoagulant Drugs, Thyroid Dysfunction, Diabetes, Sepsis.

Age

No age limit

Gender

Male

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: 20

Randomization (investigator's opinion)

Randomized

Randomization description

All Patients are Randomly Divided (based on the table of random numbers) into two Groups Receiving PRP or PRP with Carboxy Therapy.

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Kerman University of Medical Sciences

Street address

Imam Khomeini Highway, Next to Shahid Bahonar University, Afzalipour Hospital, Kerman, Iran

City

Kerman

Province

Kerman

Postal code

7616913355

Approval date

2023-04-09, 1402/01/20

Ethics committee reference number

IR.KMU.AH.REC.1402.006

Health conditions studied

1

Description of health condition studied

Androgenic hair loss

ICD-10 code

L66

ICD-10 code description

Cicatricial alopecia [scarring hair loss]

Primary outcomes

1

Description

Male Hair Loss

Timepoint

3 Months

Method of measurement

PhotoFinder Device

Secondary outcomes

empty

Intervention groups

1

Description

The First Group Receiving PRP

Category

Treatment - Drugs

2

Description

Intervention group: The second group receiving PRP along with Carboxytherapy

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Afzalipour Hospital

Full name of responsible person

Fatemeh Rastaghi

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Imam Khomeini Highway, Next to Shahid Bahonar University, Afzalipour Hospital, Kerman, Iran

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Kerman University of Medical Sciences
Full name of responsible person
Fatemeh Rastaghi
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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

Kerman University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity
Kerman University of Medical Sciences
Full name of responsible person
Fatemeh Rastaghi
Position
Resident
Latest degree
Medical doctor

Other areas of specialty/work

General Practitioner

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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to

make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available

Title and more details about the data/document

Information is Shared, but the Method of Dissemination is not Clear

When the data will become available and for how long

Information is Shared, but the Method of Dissemination is not Clear

To whom data/document is available

Dermatologists

Under which criteria data/document could be used

Information is shared, but the method of dissemination is not clear

From where data/document is obtainable

Corresponding Author Email address and phone number

What processes are involved for a request to access data/document

Information is Shared, but the Method of Dissemination is not Clear

Comments