

Clinical Trial Protocol

Iranian Registry of Clinical Trials

15 Jul 2026

Comparison of The Efficacy of Platelet-Rich Plasma (PRP) Combined with Carboxytherapy vs PRP Monotherapy in Females with Androgenetic Alopecia Treated with Antiandrogen Drugs

Protocol summary

Study aim

Comparison of the Efficacy of Platelet-Rich Plasma (PRP) Combined with Carboxytherapy vs PRP Monotherapy in Females with Androgenetic Alopecia Treated with Antiandrogen Drugs

Design

A Clinical Trial, phase 2, was Conducted on 20 Patients with Androgenic Hair Loss in two groups Receiving PRP and Treated with PRP Combined with Carboxytherapy based on a random Number Table.

Settings and conduct

PRP Once A Month for Three Consecutive Months and Carboxytherapy Every Two Weeks for Six Weeks Afzalipour Hospital Kerman

Participants/Inclusion and exclusion criteria

Entry Criteria: Women without Previous Underlying Disease, Suffering from Androgenic Hair Loss Exit Criteria: Patients Platelet Disorders, Thrombocytopenia, Anemia, Cardio-Pulmonary Diseases, Kidney Disease, Vasovagal Syncope, Uncontrolled Blood Pressure, Use of Anticoagulant Drugs, Thyroid Dysfunction, Diabetes, Sepsis and Cancer

Intervention groups

1- Platelet-Rich Plasma (PRP) Recipient Group 2- Treated with PRP combined with Carboxytherapy

Main outcome variables

Hair Loss

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20220919055994N2**

Registration date: **2023-05-30, 1402/03/09**

Registration timing: **prospective**

Last update: **2023-05-30, 1402/03/09**

Update count: **0**

Registration date

2023-05-30, 1402/03/09

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

2023-06-21, 1402/03/31

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

Comparison of The Efficacy of Platelet-Rich Plasma (PRP) Combined with Carboxytherapy vs PRP Monotherapy in Females with Androgenetic Alopecia Treated with Antiandrogen Drugs

Public title

The effectiveness of Combined Treatment of Carboxytherapy and Platelet-Rich Plasma (PRP)

Compared to Platelet-Rich Plasma Alone, in the Treatment of Women with Androgenic Hair Loss Treated with Anti-Androgen Drugs.

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Diagnosis of Androgenetic Alopecia

Exclusion criteria:

Platelet Disorders, Thrombocytopenia, Anemia, Cardio-Pulmonary Diseases, Kidney Disease, Vasovagal Syncope, Uncontrolled Blood Pressure, Use of Anticoagulant Drugs, Thyroid Dysfunction, Diabetes, Sepsis and Cancer.

Age

No age limit

Gender

Female

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: 20

Randomization (investigator's opinion)

Not randomized

Randomization description

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

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

City

Kerman

Province

Kerman

Postal code

7616913355

Approval date

2023-05-22, 1402/03/01

Ethics committee reference number

IR.KMU.AH.REC.1402.033

Health conditions studied

1

Description of health condition studied

Women without Previous Underlying Disease, Suffering from Androgenic Hair Loss

ICD-10 code

L66

ICD-10 code description

Cicatricial alopecia [scarring hair loss]

Primary outcomes

1

Description

Androgenic Hair Loss

Timepoint

Once a Month

Method of measurement

Physical Examination

Secondary outcomes

empty

Intervention groups

1

Description

All Patients are Randomly Divided (based on the table of Random Numbers) into two Groups Receiving PRP and Treated with PRP Combined with Carboxytherapy. For All Patients, the Use of Cyproterone Compound and Spironolactone (100 Mg) Once a Day Is Recommended. PRP Is Performed Once a Month for Three Consecutive Months and Carboxytherapy is Performed Every two Weeks for Six Weeks.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Afzalipour Hospital

Full name of responsible person

Fatemeh Rastaghi

Street address

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

City

Kerman

Province

Kerman

Postal code

7616913355

Phone

+98 34 3132 8000

Email

fatemeh_rastaghi@yahoo.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Kerman University of Medical Sciences

Full name of responsible person

Fatemeh Rastaghi

Street address

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

City

Kerman

Province

Kerman

Postal code

7616913355

Phone

+98 76 1691 3355

Email

fatemeh_rastaghi@yahoo.com

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

Street address

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

City

Kerman

Province

Kerman

Postal code

7616913355

Phone

+98 34 3132 8000

Email

fatemeh_rastaghi@yahoo.com

Person responsible for scientific 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

Street address

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

City

Kerman

Province

Kerman

Postal code

7616913355

Phone

+98 34 3132 8328

Email

fatemeh_rastaghi@yahoo.com

Person responsible for updating data

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

Dermatologist

Street address

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

City

Kerman

Province

Kerman

Postal code

7616913355

Phone

+98 34 3132 8000

Email

fatemeh_rastaghi@yahoo.com

Sharing plan**Deidentified Individual Participant Data Set (IPD)**

Yes - There is 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

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

Data Dictionary

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

Title and more details about the data/document

All the Results will be Published as a Group and the Names of the Patients will not be Mentioned at any Stage.

When the data will become available and for how long

6 Month

To whom data/document is available

Dermatologists

Under which criteria data/document could be used

Dermatologists, Raw Data Are Not Published, Final Results Are Reported.

From where data/document is obtainable

Via the Responsible Author's Email:

fatemeh_rastaghi@yahoo.com, phone: 03431328000

Mobile: 00989391364922

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

After A Week and the Author's Approval, the Information Will be Emailed to the Recipient.

Comments