Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 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 Bahonar 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

Afazalipour Hospital

Full name of responsible person

Fatemeh Rastaghi

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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Kerman University of Medical Sciences
Full name of responsible person
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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)
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