

Clinical Trial Protocol

Iranian Registry of Clinical Trials

30 Jun 2026

Investigating the Effectiveness of Combined Treatment of Carboxytherapy with Platelet-Rich Plasma (PRP) Compared To PRP, in Patients with Vitiligo Treated with Phototherapy

Protocol summary

Study aim

Investigating the Effectiveness of Combined Treatment of Carboxytherapy with Platelet-Rich Plasma (PRP) Compared To PRP, in Patients with Vitiligo Treated with Phototherapy

Design

This Is an Interventional Study That Includes 30 Patients with Vitiligo Aged At Least 18 Years Who Have Not Received any Treatment for Vitiligo In the last 3 Months Prior To Entering the Study and Whose Lesions are Similar on both Sides. Referees to Afzalipour Hospital Are Selected for Light Therapy and Are Included in The Study. The Sampling Method in This Study Is Available.

Settings and conduct

This Is an Interventional Study in Which Patients with Vitiligo Who Have Not Received Any Treatment for Vitiligo for 3 Months Before Entering the Study and Whose Lesions are Similar on Both Sides, Are Among the Patients Referred to Afzalipour Hospital. They are Selected for Light Therapy and Enter the Study. The Sampling Method in this Study is Available.

Participants/Inclusion and exclusion criteria

Inclusion Criteria: A Patient with Vitiligo Exit Criteria: Exit Criteria: Photosensitive Diseases, Segmental Vitiligo, Patients With A Positive Köbner History, Previous History of Keloid Formation, Pregnancy, Breastfeeding, History of Malignant Diseases, Presence of Skin Infection at the Site, Cardiovascular Disease, Acute Embolism, Thrombophlebitis, Kidney Failure, Use Of Inhibitors Carbonic Anhydrase (Acetazolamide, Diclofenac), Systemic Disease, Bleeding Disorders or Use of Anticoagulant Drugs And Vasovagal Syncope

Intervention groups

In each Patient, two Similar Lesions are Selected for Treatment, which are Randomly on The Right or Left Side Treated with PRP or PRP with Carboxytherapy. For all Patients, Light therapy is Performed three times a Week

according to the Protocol.

Main outcome variables

Status of Vitiligo Lesions

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20230601058354N1**

Registration date: **2023-07-04, 1402/04/13**

Registration timing: **prospective**

Last update: **2023-07-04, 1402/04/13**

Update count: **0**

Registration date

2023-07-04, 1402/04/13

Registrant information

Name

Shima Estabragh

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 34 9100 1480

Email address

shimaestabragh@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-07-20, 1402/04/29

Expected recruitment end date

2024-03-19, 1402/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Investigating the Effectiveness of Combined Treatment of Carboxytherapy with Platelet-Rich Plasma (PRP) Compared To PRP, in Patients with Vitiligo Treated with Phototherapy

Public title

Investigating the Effectiveness of Combined Treatment of Carboxytherapy with Platelet-Rich Plasma (PRP) Compared To PRP, in Patients with Vitiligo Treated with Phototherapy

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

A Patient with Vitiligo

Exclusion criteria:

Photosensitive Diseases Segmental Vitiligo Patient with positive Kübner's History Previous History of Keloid Formation Pregnancy Breastfeeding History of Malignant Diseases Presence of Skin Infection at the Site Cardiovascular Disease Acute Embolism Thrombophlebitis Kidney Failure Use of Inhibitor Carbonic Anhydrase (Acetazolamide, Diclofenac), Systemic Disease Bleeding disorders or use of Anticoagulant Drugs Vasovagal Syncope

Age

From **18 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **30**

Randomization (investigator's opinion)

Not randomized

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

Not blinded

Blinding description**Placebo**

Not used

Assignment

Single

Other design features**Secondary Ids**

empty

Ethics committees**1**

Ethics committee

Name of ethics committee

Ethics committee of 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

2023-04-08, 1402/01/19

Ethics committee reference number

IR.KMU.AH.REC.1402.004

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

Vitiligo Disease

ICD-10 code

L80

ICD-10 code description

Vitiligo

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

Status of Vitiligo Lesions

Timepoint

For all Patients, Light therapy was Performed Three times a week according to the Protocol. It Was Evaluated monthly during the Treatment and 4 Months after the end of the Treatment.

Method of measurement

The Diagnosis of the Disease was Made Clinically by a Dermatologist and then confirmed with the help of Wood's Lamp Test.

Secondary outcomes

empty

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

Intervention group: In each Patient, two Similar Lesions are Selected for Treatment, which are Randomly Treated with PRP on the Right or Left Side. For all Patients, Light Therapy is Performed Three Times a Week According to the Protocol.

Category

Treatment - Devices

2

Description

Intervention group 2: In each Patient, Two Similar Lesions are Selected for Treatment, which are Randomly Placed on the Right or Left Side Under PRP Treatment with Carboxytherapy. For all Patients, Light Therapy is Performed Three Times a Week According to the Protocol.

Category

Treatment - Devices

Recruitment centers

1

Recruitment center

Name of recruitment center

Afzalipour hospital

Full name of responsible person

Shima Estabragh

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

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Email

Shimaestabragh@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Kerman University of Medical Sciences

Full name of responsible person

Shima Estabragh

Street address

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

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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

Shima Estabragh

Position

Resident

Latest degree

Medical doctor

Other areas of specialty/work

Dermatology

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Shimaestabragh@gmail.com

Person responsible for scientific inquiries

Contact

Name of organization / entity

Kerman University of Medical Sciences

Full name of responsible person

Shima Estabragh

Position

Resident

Latest degree

Medical doctor

Other areas of specialty/work

Dermatology

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Person responsible for updating data

Contact

Name of organization / entity
Kerman University of Medical Sciences
Full name of responsible person
Shima Estabragh
Position
Resident
Latest degree
Medical doctor
Other areas of specialty/work
Dermatology
Street address
Imam Khomeini Highway, Next to Shahid Bahonar
University, Afzalipour Hospital, Kerman, Iran
City
Kerman
Province
Kerman
Postal code

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

Undecided - It is not yet known if there will be 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