

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

comparison between the efficacy of carboxytherapy vs microderm abrasion in the treatment of striae alba in womans referring to Afzalipour Hospital Dermatology Clinic

Protocol summary

Study aim

Comparison between efficacy of carboxy therapy vs microderm abrasion in treatment of striae alba

Design

Non randomised, parallel group trial with blinded outcome assessment and with sample size consisting of 15 patients

Settings and conduct

The study involved 15 women aged 18 -45 who have come to the dermatology clinic for treatment of striae alba. The site of this study is Afzali Hospital Dermatology Clinic. Each person undergoes carboxytherapy for their right side and microderm abrasion for the left side .

Participants/Inclusion and exclusion criteria

Inclusion criteria: Women aged 18 to 45 years, have striae lesions. Exclusion criteria: History of keloid formation ; pregnancy; lactation ; The presence of infection in the intervention site ;Recent consumption of oral steroid , oral retinoid, immunosuppressive drugs ; The presence of systemic disease ; History of treatment of the striae in the last 6 months

Intervention groups

every patient receive treatment in the form of carboxy therapy in their right side and microderm abrasion in their left side every 2 week for 4 session

Main outcome variables

efficacy of treatment (decrease latitude and width of lesion, the color of the waste is similar to the natural skin color), patient satisfaction, side effects of treatment ,skin biopsy changes(increase of elastic fibers in dermis)

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180621040173N1**

Registration date: **2018-10-31, 1397/08/09**

Registration timing: **registered_while_recruiting**

Last update: **2018-10-31, 1397/08/09**

Update count: **0**

Registration date

2018-10-31, 1397/08/09

Registrant information

Name

Mehri Shahsavari pour

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 34 3323 2035

Email address

m.shahsavari@kmu.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-10-23, 1397/08/01

Expected recruitment end date

2018-12-22, 1397/10/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

comparison between the efficacy of carboxytherapy vs microderm abrasion in the treatment of striae alba in womans referring to Afzalipour Hospital Dermatology Clinic

Public title

comparison between the efficacy of carboxytherapy vs microderm abrasion in treatment of striae alba

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

All Women 18 to 45 years who have striae alba

Exclusion criteria:

the previous history of keloids pregnancy lactation if there is a skin infection at the site recent taking oral steroid , oral retinoid, immunosuppressive drugs at the same time there is a systemic disease treatment of striae in the last 6 months

Age

From **18 years** old to **45 years** old

Gender

Female

Phase

N/A

Groups that have been masked

- Outcome assessor

Sample size

Target sample size: **15**

Randomization (investigator's opinion)

Not randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

The dermatologist who evaluates the outcome of striae treatments is blind to the type of intervention performed on each side of the patients body

Placebo

Not used

Assignment

Parallel

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

EmamKhomeini High way, Afzalipour hospital

City

Kerman

Province

Kerman

Postal code

7616913911

Approval date

2018-10-10, 1397/07/18

Ethics committee reference number

IR.KMU.REC.1397.236

Health conditions studied

1

Description of health condition studied

striae alba

ICD-10 code

L90.6

ICD-10 code description

Striae atrophicae

Primary outcomes

1

Description

Recovery percentage of striae alba

Timepoint

before treatment and a month after last treatment

Method of measurement

observation and ruler which is measured by the quartile grading system

2

Description

side effects include erythema , bruising , pigmentation

Timepoint

two weeks after each procedure

Method of measurement

observation

3

Description

skin biopsy changes as increase elastic fibers in dermis

Timepoint

one month after the last treatment

Method of measurement

ellastin staining

Secondary outcomes

1

Description

patient satisfaction

Timepoint

before treatment and a month after last treatment

Method of measurement

patient observation and questionnaire

Intervention groups

1

Description

ntervention group: every patient receive treatment in the form of carboxy therapy in their right side every 2 week for 4 session. Skin biopsies are taken before and after treatment in 3 patients

Category

Treatment - Devices

2**Description**

Control group: every patient receive treatment in the form of microderm abrasion in their left side every 2 week for 4 session. Skin biopsies are taken before and after treatment in 3 patients

Category

Treatment - Devices

Recruitment centers**1****Recruitment center****Name of recruitment center**

dermatology clinic in Afzalipour hospital

Full name of responsible person

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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

Mehri Shahsavari pour

Position

resident

Latest degree

Medical doctor

Other areas of specialty/work

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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

There is no more information

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

No - There is not 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