

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Evaluation of the effect of microneedling on the healing of striae alba lesions

Protocol summary

Study aim

Determining the effect of microneedling on the healing of striae alba lesions

Design

A non-randomized, no-blinding clinical trial, with the single group, Phase 2 on 34 patients

Settings and conduct

In this single-blind clinical trial study, 34 patients with striae alba lesions referred to the dermatology clinic of Al-Zahra Hospital in Isfahan will be included in the study. These patients will then undergo microneedling and the extent of scar healing will be assessed one and three months after the intervention.

Participants/Inclusion and exclusion criteria

Inclusion criteria include the existence of striae on the abdomen, buttocks, thighs, and sides in less than a year and not receiving any previous treatment for striae and skin types 3 and 4. Exclusion criteria included pregnancy, breastfeeding, the presence of striae alba on the chest and arms, previous treatment of striae with medication or laser, use topical or systemic steroids, Cushing's syndrome, use of isotretinoin or filler injection in the last 6 to 12 months, perform skin dermabrasion or laser skin resurfacing for the last 6 to 12 months at the striae site.

Intervention groups

Intervention group: First, local anesthesia is placed on the treatment site for half to one hour, then it is washed with normal saline and sterilized using the aseptic solution, and then it is treated with microneedling. Then the area is cleaned with sterile gas impregnated with normal saline and zinc oxide cream is applied to it. Patients are advised to refrain from washing the area for 24 hours and to apply zinc oxide on the site for at least 1 week and to avoid direct sunlight in a separate area.

Main outcome variables

Extent of scar healing

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20200825048515N30**

Registration date: **2021-04-13, 1400/01/24**

Registration timing: **prospective**

Last update: **2021-04-13, 1400/01/24**

Update count: **0**

Registration date

2021-04-13, 1400/01/24

Registrant information

Name

Asieh Maghami Mehr

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 31 0000 0000

Email address

asimaghami@yahoo.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-04-19, 1400/01/30

Expected recruitment end date

2021-06-20, 1400/03/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the effect of microneedling on the healing of striae alba lesions		Postal code 8179964167	
Public title The effect of microneedling on the healing of striae alba lesions		Approval date 2021-01-10, 1399/10/21	
Purpose Treatment		Ethics committee reference number IR.MUI.MED.REC.1399.908	
Inclusion/Exclusion criteria Inclusion criteria: Existence of striae on the abdomen, buttocks, thighs and sides in less than a year Not receiving any previous treatment for striae and skin types 3 and 4 Exclusion criteria: Pregnancy Breastfeeding The presence of astriae alba on the chest and arms Previous treatment of striae with medication or laser Use topical or systemic steroids Cushing's syndrome Use of isotretinoin or filler injection in the last 6 to 12 months Perform skin dermabrasion or laser skin resurfacing for the last 6 to 12 months at the striae site		Health conditions studied 1 Description of health condition studied Striae alba ICD-10 code L90.6 ICD-10 code description Striae atrophicae	
Age No age limit		Primary outcomes 1 Description Scar recovery rate Timepoint One month and three months after treatment Method of measurement Visual Analog Scale(VAS)	
Gender Both		Secondary outcomes empty	
Phase 2		Intervention groups 1 Description Intervention group: First, local anesthesia is placed on the treatment site for half to one hour, then it is washed with normal saline and sterilized using aseptic solution and then it is treated with microneedling. Then the area is cleaned with sterile gas impregnated with normal saline and zinc oxide cream is applied on it. Patients are advised to refrain from washing the area for 24 hours and to apply zinc oxide on the site for at least 1 week and to avoid direct sunlight in a separate area. Category Treatment - Other	
Groups that have been masked No information		Recruitment centers 1 Recruitment center Name of recruitment center Al-Zahra Hospital Full name of responsible person Amir Hossein Siadat Street address Department of Dermatology; Al-Zahra Hospital; Sofeh	
Sample size Target sample size: 34			
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 Isfahan University of Medical Sciences Street address Street address Isfahan University of Medical Sciences, Hezar Jarib Ave., Azadi Sq City Isfahan Province Isfahan			

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Esfahan University of Medical Sciences
Full name of responsible person
Shaghayegh Haghjoo Javanmard
Street address
Vice Chancellor for Research, School of Medicine,
Hezar Jarib Street, Isfahan.
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dean@med.mui.ac.ir

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

No

Title of funding source

Isfahan 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
Esfahan University of Medical Sciences
Full name of responsible person
Amir Hossein Siadat
Position
Associate Professor

Latest degree

Specialist

Other areas of specialty/work

Dermatology

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Person responsible for scientific inquiries

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Esfahan University of Medical Sciences

Full name of responsible person

Amir Hossein Siadat

Position

Associate Professor

Latest degree

Specialist

Other areas of specialty/work

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Person responsible for updating data

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Full name of responsible person

Reza Moeini Farsani

Position

Non-faculty physician

Latest degree

Medical doctor

Other areas of specialty/work

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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 further 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