

Clinical Trial Protocol

Iranian Registry of Clinical Trials

22 Jul 2026

effectiveness of simultaneous fat injection by microfat and nano fat method in improvement of atrophic acne scar

Protocol summary

Study aim

Treatment effects and possible side effects of nano fat and micro fat injection in improvement of atrophic scars due to Acne

Design

Clinical trial without control group, Blinding and randomization have not been done on 13 patient

Settings and conduct

This study will be conducted on 13 patients with atrophic acne scar who will be visiting dermatology clinic in imam reza hospital at first fat will be harvested then via sedimentation method blood and tumescent fluid will be separated from fat, and at last the final product will be injected intradermally using a 1 cc syringe and microfat via a cannula 21 gauge subdermal with a 1 cm space between each injection site Patient assessment recovery will be preformed 3 months later

Participants/Inclusion and exclusion criteria

Patients over 23 years of age with Acne scars ; At least one year since the active Acne recovered; Patient consent Exclusion criteria: Under 23 and over 45 years of age; Mental Illness Bleeding disorders or usage of anticoagulants; Pregnancy and Lactation

Intervention groups

consent will be obtained from patients more than 23 years of age with Acne scar before entering the study Technique: First Fat will be harvested, Then, will be separated from the blood and tumescent solution by sedimentation method, after that micro and nano-fat will be prepared by emulsifying the fat via 2.4, 1.4 and 1.1 size connectors then the final product will be transferred to 1 cc syringes and injected with 30 gauge needles at intervals of 1 cm. and micro fat via cannula 21 gauge injected

Main outcome variables

Change in scar intensity based on it color, depth and consistency

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20200526047577N2**

Registration date: **2022-08-30, 1401/06/08**

Registration timing: **prospective**

Last update: **2022-08-30, 1401/06/08**

Update count: **0**

Registration date

2022-08-30, 1401/06/08

Registrant information

Name

Mohammed Tehami

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 51 3838 3903

Email address

mohd.tehami@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-09-04, 1401/06/13

Expected recruitment end date

2022-10-07, 1401/07/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

effectiveness of simultaneous fat injection by microfat and nano fat method in improvement of atrophic acne scar

Public title
Effect of fat injection in improvement of atrophic Acne scar

Purpose
Treatment

Inclusion/Exclusion criteria
Inclusion criteria:
Atrophic scars due to acne did not seek treatment for the last 12 monthsAtrophic Acne scar had occurred at least 3 months ago
Exclusion criteria:
Patients with Bleeding disorders, Patient who did not fill a consent form, Patient with comorbidities e.g. Diabetes Mellitus, Hyper tension or autoimmune disorders, Pregnancy and breastfeeding

Age
From **23 years** old to **45 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **13**

Randomization (investigator's opinion)
N/A

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 Mashhad University of Medical Sciences

Street address

Central Building of Mashhad University of Medical Scineces (Ghorashi), Daneshgah 16, Daneshgah street

City

mashhad

Province

Razavi Khorasan

Postal code

9177899191

Approval date

2022-04-26, 1401/02/06

Ethics committee reference number

IR.MUMS.MEDICAL.REC.1401.124

Health conditions studied

1

Description of health condition studied

atrophic acne scar

ICD-10 code

L70.0

ICD-10 code description

Acne vulgaris

Primary outcomes

1

Description

Change in scar intensity based on it color and depth and consistency

Timepoint

3 months

Method of measurement

The patient and observer scar assessment scale (POSAS)
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Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Patients over 23 years of age with acne scars

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Dermatology Clinic, Imam Reza a. Hospital

Full name of responsible person

Hassan Mohammadi

Street address

Ibin sina street, Imam Reza a Hospital

City

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Mashhad University of Medical Sciences
Full name of responsible person
Dr. Majeed Ghaioor
Street address
Central Building of Mashhad University of Medical Sciences (Ghorashi), Daneshgah 16, Daneshgah street
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ramresearch@mums.ac.ir
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
No
Title of funding source
Mashhad 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
Mashhad University of Medical Sciences
Full name of responsible person
Hassan Mohammadi
Position
رئیس
Latest degree
Medical doctor
Other areas of specialty/work
Dermatology
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Person responsible for scientific inquiries

Contact

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Person responsible for updating data

Contact

Name of organization / entity
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Email

Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Not applicable

Data Dictionary

Not applicable

Title and more details about the data/document

All data can be shared after patient are made unidentified.

When the data will become available and for how long

Data can be accessible 6 months after results are published

To whom data/document is available

Data will be available for researchers in universities and other scientific institutes.

Under which criteria data/document could be used

Carrying out analysis on data is permitted.

From where data/document is obtainable

Data can be accessible through sending an email to the corresponding author. ha.mohammadi1399@gmail.com

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

After sending a request email to the corresponding author, data will be sent in 1 month

Comments