

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

17 Sep 2026

### Evaluation of the efficacy of Stromal Vascular Fraction (SVF) cells on the effect of subcision method in the treatment of acne scars; A one-blind clinical trial

#### Protocol summary

##### Study aim

Evaluation the effect of adipose derived Stromal Vascular Fraction (SVF) cells on healing of scar after subcision

##### Design

This pilot study on 10 patients with moderate and severe acne scarring done. after receiving adequate anesthetic, the scars of the patients are treated with subcision on both sides of the face. Immediately after subsection, one side of the patient's face (intervention group) is injected with adipose tissue-derived SVF cells, and the other side of the face (control group) is injected with nothing on the scar site. All patients are photographed by digital camera before and after treatment. To determine the rate of improvement and compare two sides of the face at the end, patient photographs are reviewed by two blind dermatologist. Patient satisfaction is also recorded and the results are compared.

##### Settings and conduct

This design is done at the skin and stem cell research center of Tehran university of medical sciences and without the patient's knowledge, after the subcision, SVF cells are injected on one side of the face and nothing is injected on the other side of the scar area.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: Age between 20-50; Developing middle to severe atrophic scars in face region. Exclusion criteria: Pregnancy and breastfeeding; Active infection in face; Using any local drugs on face except sun protection creams in last month

##### Intervention groups

First intervention group: One side of the face is treated with subcision and adipose derived SVF cells in the injection position. Second intervention group: The other side of the face is treated as a control group with subcision.

##### Main outcome variables

scar's surface; side effects; patient's satisfaction

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20200127046282N4**

Registration date: **2021-06-17, 1400/03/27**

Registration timing: **retrospective**

Last update: **2021-06-17, 1400/03/27**

Update count: **0**

##### Registration date

2021-06-17, 1400/03/27

##### Registrant information

##### Name

Sona Zare

##### Name of organization / entity

Skin and Stem Cell Research Center, Tehran  
University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 21 2665 7438

##### Email address

sonazarebio@gmail.com

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2021-02-15, 1399/11/27

##### Expected recruitment end date

2021-05-17, 1400/02/27

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

**Trial completion date**

empty

**Scientific title**

Evaluation of the efficacy of Stromal Vascular Fraction (SVF) cells on the effect of subcision method in the treatment of acne scars; A one-blind clinical trial

**Public title**

Evaluation the efficacy of adipose derived SVF cells in the treatment of acne scars

**Purpose**

Treatment

**Inclusion/Exclusion criteria****Inclusion criteria:**

Age between 20-50 Having middle to severe atrophic scar in face region

**Exclusion criteria:**

Pregnancy and breastfeeding History of cancer Patients with active acne People with Mental Disorders Active infection in the face

**Age**

From **20 years** old to **50 years** old

**Gender**

Both

**Phase**

1

**Groups that have been masked**

- Outcome assessor

**Sample size**

Target sample size: **10**

**Randomization (investigator's opinion)**

Not randomized

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

Single blinded

**Blinding description**

Blinding: Patients and physicians will not know the type of treatment, but the evaluator will know the type of patient treatment. Therefore, the study will be conducted blindly.

**Placebo**

Not used

**Assignment**

Parallel

**Other design features****Secondary Ids**

empty

**Ethics committees**

1

**Ethics committee****Name of ethics committee**

Ethics Committee of Tehran University of Medical Sciences

**Street address**

Tehran University of Medical Sciences, Keshavarz

blvd.

**City**

Tehran

**Province**

Tehran

**Postal code**

1937957511

**Approval date**

2021-02-14, 1399/11/26

**Ethics committee reference number**

IR.TUMS.MEDICINE.REC.1399.1136

**Health conditions studied**

1

**Description of health condition studied**

atrophic scar

**ICD-10 code**

L90.5

**ICD-10 code description**

Scar conditions and fibrosis of skin

**Primary outcomes**

1

**Description**

Scar size

**Timepoint**

before and 3 month after the intervention

**Method of measurement**

visio face

2

**Description**

Side effects

**Timepoint**

One week after treatment

**Method of measurement**

Questionnaire and visit

3

**Description**

Patient Satisfaction

**Timepoint**

Three and six months after treatment

**Method of measurement**

Questionnaire

**Secondary outcomes**

empty

**Intervention groups**

1

**Description**

Control group: (Other side of face) After sufficient

anesthesia, treatment with subcision.

**Category**

Treatment - Other

**2****Description**

Intervention group: One side of the face after being anesthetized, is first treated with subcision, and then adipose derived Stromal Vascular Fraction (SVF) cells is injected in the scars.

**Category**

Treatment - Other

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

Clinic of Skin and Stem cell Research Center of  
Tehran University of Medical Sciences

**Full name of responsible person**

Masoumeh Roohaninasab

**Street address**

No 4, Maryam Alley, South Kamraniyeh Street,  
Tehran, Iran

**City**

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**Province**

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1937957511

**Phone**

+98 21 2221 5558

**Email**

rohaninasab.m@iums.ac.ir

**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Tehran University of Medical Sciences

**Full name of responsible person**

Mohammad Ali Sahrayian

**Street address**

Central Building of Tehran University of Medical  
Sciences, Ghods st, Keshavarz blvd, Tehran, Iran

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**Province**

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**Postal code**

1417653761

**Phone**

+98 21 81631

**Email**

tums\_edu@tums.ac.ir

**Grant name****Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

Tehran 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**

Skin and Stem cell Research Center of Tehran  
University of Medical Sciences

**Full name of responsible person**

Sona Zare

**Position**

researcher

**Latest degree**

Ph.D.

**Other areas of specialty/work**

cellular and molecular biology

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**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Skin and Stem cell Research Center of Tehran  
University of Medical Sciences

**Full name of responsible person**

Masoumeh Roohaninasab

**Position**

assistant Professor

**Latest degree**

Specialist

**Other areas of specialty/work**

Dermatology

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## Person responsible for updating data

### Contact

**Name of organization / entity**  
Skin and Stem cell Research Center of Tehran  
University of Medical Sciences  
**Full name of responsible person**  
Sona Zare  
**Position**  
researcher  
**Latest degree**  
Ph.D.  
**Other areas of specialty/work**  
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## 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

Not applicable

### 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

Not applicable

### Data Dictionary

Not applicable