

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jul 2026

### Outcome of suction blistering epidermal graft by means of a new fraise for preparation of recipient site in depigmented lesions

#### Protocol summary

##### Summary

The objective of this nonrandomized, trial study is to investigate the outcome of suction blistering epidermal graft by means of a motor- driven dental lab finishing carbide bur for preparation of the recipient site in depigmented lesions. In this study, 14 patients with 45 stable depigmented lesions who met the inclusion criteria were recruited and subjected to this procedure. Firstly anterolateral of leg was anesthetized as a donor site, we used three- way connected double syringes or funnel cylinder technique for harvesting of epidermal grafts. Later depigmented epidermis was removed by a motor- driven dermabrader, using a cylindrical, round end, titanium nitride- coated carbide bur and finally harvested epidermis placed over the abraded recipient site. Patients were monitored before and after treatment by photography. Patients were followed-up for improvement that was the rate of repigmentation and probable complications such as: scar formation, color mismatch and peri graft halo.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT138802251906N1**

Registration date: **2011-11-19, 1390/08/28**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2011-11-19, 1390/08/28

##### Registrant information

##### Name

Ali Ebrahimi

##### Name of organization / entity

Kermanshah University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 83 1823 3862

##### Email address

aebrahimi@kums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Kermanshah University of Medical Sciences

##### Expected recruitment start date

2006-10-10, 1385/07/18

##### Expected recruitment end date

2011-06-10, 1390/03/20

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Outcome of suction blistering epidermal graft by means of a new fraise for preparation of recipient site in depigmented lesions

##### Public title

Epidermal graft in stable vitiligo

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: depigmented lesions unresponsive to medications and phototherapy; all patients had stable disease for more than 1 year and there was not any history of a positive Kobner phenomenon. Exclusion criteria: unstable or active vitiligo; positive Kobner phenomenon; age under 12 years old and pregnancy.

##### Age

From **16 years** old to **29 years** old

**Gender**

Both

**Phase**

2

**Groups that have been masked**

No information

**Sample size**

Target sample size:

**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**

Kermanshah university of medical science ethics committee

**Street address**

Shahid Beheshti blv.

**City**

kermanshah

**Postal code**

6714673156

**Approval date**

2006-05-03, 1385/02/13

**Ethics committee reference number**

6344/420/7/پ

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

Vitiligo and other depigmented lesions

**ICD-10 code**

L80

**ICD-10 code description**

Vitiligo

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

Repigmentation rate

**Timepoint**

Every week in the first month and once a month for the following 6-8 months.

**Method of measurement**

The repigmentation rate of lesions was classified as excellent (more than 75% repigmentation), good (50-75% repigmentation), moderate (25-50% repigmentation) and poor (less than 25% repigmentation).

**Secondary outcomes****1****Description**

Perigraft halo

**Timepoint**

All patients were visited every week in the first month and once a month for the following 6-8 months.

**Method of measurement**

clinical observation

**2****Description**

Scar and Keloid

**Timepoint**

All patients were visited every week in the first month and once a month for the following 6-8 months.

**Method of measurement**

clinical observation

**3****Description**

Kobner phenom

**Timepoint**

All patients were visited every week in the first month and once a month for the following 6-8 months.

**Method of measurement**

clinical observation

**4****Description**

Color mismatch

**Timepoint**

All patients were visited every week in the first month and once a month for the following 6-8 months.

**Method of measurement**

clinical observation

**5****Description**

Infection

**Timepoint**

All patients were visited every week in the first month and once a month for the following 6-8 months.

**Method of measurement**

clinical observation and Laboratory assesment

## Intervention groups

1

### Description

suction blistering epidermal graft by means of a new dental lab finishing carbide bur for preparation of the recipient site in depigmented lesions. There was not control group.

### Category

Treatment - Devices

## Recruitment centers

1

### Recruitment center

#### Name of recruitment center

Hajdaie dermatology clinic

#### Full name of responsible person

Ali Ebrahimi

#### Street address

Hajdaie clinic Golestan Blvd

#### City

Kermanshah

## Sponsors / Funding sources

1

### Sponsor

#### Name of organization / entity

Kermanshah University of Medical Sciences

#### Full name of responsible person

Dr farid Najafi

#### Street address

Shahid Beheshti Blvd

#### City

Kermanshah

### Grant name

### Grant code / Reference number

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

Yes

### Title of funding source

Kermanshah University of Medical Sciences

### Proportion provided by this source

100

### Public or private sector

*empty*

### Domestic or foreign origin

*empty*

### Category of foreign source of funding

*empty*

### Country of origin

### Type of organization providing the funding

*empty*

## Person responsible for general inquiries

### Contact

### Name of organization / entity

Kermanshah University of Medical Sciences

### Full name of responsible person

Ali Ebrahimi

### Position

Assistant professor (dermatologist)

### Other areas of specialty/work

### Street address

Hajdaie clinic, Golestan Blvd

### City

Kermanshah

### Postal code

67146-53113

### Phone

+98 83 1835 9054

### Fax

### Email

aebrahimi@kums.ac.ir

### Web page address

## Person responsible for scientific inquiries

### Contact

#### Name of organization / entity

Department of Dermatology,School of medicine,University of medical science

#### Full name of responsible person

Dr Hossein Kavoussi

#### Position

Assistant Professor

#### Other areas of specialty/work

#### Street address

Golestan sq.

#### City

Kermanshah

#### Postal code

6714637519

#### Phone

+98 83 1837 5424

#### Fax

+98 83 2427 4623

#### Email

hkawosi@kums.ac.ir

#### Web page address

## Person responsible for updating data

### Contact

#### Name of organization / entity

Department of Dermatology,School of medicine,University of medical science

#### Full name of responsible person

Hossein Kavoussi

#### Position

Assistant Professor

#### Other areas of specialty/work

#### Street address

Hajdaie clinic, Golestan Blvd

#### City

Kermanshah

#### Postal code

6714637519

**Phone**

+98 83 1837 5424

**Fax**

+98 83 1427 4623

**Email**

hkawosi@kums.ac.ir

**Web page address**

**Sharing plan**

**Deidentified Individual Participant Data Set (IPD)**

*empty*

**Study Protocol**

*empty*

**Statistical Analysis Plan**

*empty*

**Informed Consent Form**

*empty*

**Clinical Study Report**

*empty*

**Analytic Code**

*empty*

**Data Dictionary**

*empty*