

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

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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 phenomem

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

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Kermanshah

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Kermanshah University of Medical Sciences

Full name of responsible person

Dr farid Najafi

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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

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

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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