

Clinical Trial Protocol

Iranian Registry of Clinical Trials

04 Jun 2026

Efficacy of medical honey usage for fixation of split thickness skin grafts and comparison with common method in deep second degree and third degree burn patients

Protocol summary

Summary

The goal of this study is to assess the effect of medical honey in skin grafting of burn patients in comparison to regular methods. In the study period, 60 patients with deep second and third degree burns will be studied. Skin grafting will be conducted to the entire patients. The patients will be divided into two groups randomly and single blinded. The first group will receive medical honey; while the second group will receive routine care only. The effect of the use of medical honey will be assessed by the rate of infection, loss of graft, shrinkage of graft, postoperative pain and hospitalization period. For the study purpose, after adequate debridement of the burn wound, a layer of medical honey will be placed on the wound bed in the first group. Then the graft will be placed followed by surgical dressing. Patients with burns on genitalia and fingers will be excluded. In addition, patients with a history of a documented medical illness such as diabetes mellitus, heart failure, pulmonary disease and cirrhosis will be excluded from the study. The patients will be visited on the fifth day after the operation and dressing of wounds will be opened and assessed. Thereafter, the entire patients will be visited every two days. Follow-up visits will also be done one-month and two-month after the operation as outpatient.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201111188122N1**

Registration date: **2012-04-06, 1391/01/18**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2012-04-06, 1391/01/18

Registrant information

Name

Sohrab Moradi Bajestani

Name of organization / entity

Tabriz University Of Medical Sciences

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Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Sina Hospital, Tabriz

Expected recruitment start date

2012-04-20, 1391/02/01

Expected recruitment end date

2012-10-22, 1391/08/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Efficacy of medical honey usage for fixation of split thickness skin grafts and comparison with common method in deep second degree and third degree burn patients

Public title

Efficacy of medical honey in fixation of skin grafts in burn

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria : Deep second degree and third degree burn
Exclusion criteria : History of medical conditions such as diabetes, respiratory and heart failure and cirrhosis; Honey sensitivity; Head and neck, digits and genitalia burn

Age

From **5 years** old to **60 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Tabriz University of Medical Sciences

Street address

Tabriz University of Medical Sciences, Golgasht St.

City

Tabriz

Postal code

Approval date

2012-01-03, 1390/10/13

Ethics committee reference number

5/4/8113

Health conditions studied

1

Description of health condition studied

second degree and third degree burn of trunk and limbs except digits and genitalia

ICD-10 code

T21.2; T21

ICD-10 code description

Burn of second degree of trunk; Burn of third degree of

trunk; Burn of second degree of shoulder and upper limb, except wrist and hand; Burn of third degree of shoulder and upper limb, except wrist and hand; Burn of second degree of hip and lower limb, ex

Primary outcomes

1

Description

Rate of graft shrinkage

Timepoint

Fifth day after the operation then every two days until six days and then in first and second months

Method of measurement

The percentage area ratio - Ruler

2

Description

Wound infection rate

Timepoint

Fifth day after the operation then every two days until six days and then in first and second months

Method of measurement

Purulent discharg and inflammation - Physical examination

3

Description

Rate of loss of graft

Timepoint

Fifth day after the operation then every two days until six days and then in first and second months

Method of measurement

Graft necrosis - Physical examination

4

Description

Length of hospital stay

Timepoint

During hospitalization

Method of measurement

Day - Calendar

5

Description

Wound pain rate

Timepoint

Every two days after operation until discharge

Method of measurement

Visual analog pain scale

Secondary outcomes

empty

Intervention groups

1

Description

Intervention in case group: Skin graft fixation by medical honey (MEDIHONEY)

Category

Treatment - Surgery

2

Description

Intervention in control group: Skin graft fixation by usual method (with sutures)

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Sina Hospital

Full name of responsible person

Hemat Maghsoudi, MD

Street address

Sina Hospital, Azadi Avenue

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

Hemat Maghsoudi, MD

Street address

Sina Hospital, Azadi Avenue

City

Tabriz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Tabriz 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

Sina Hospital

Full name of responsible person

Hemat Maghsoudi, MD

Position

Professor of General Surgery

Other areas of specialty/work

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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