Clinical Trial Protocol
Iranian Registry of Clinical Trials

08 Nov 2026

Comparing effect of organic honey and Nitrofurazone on second degree burn wound healing

Protocol summary

Summary

This study is designed to evaluate effect of organic honey on second degree burn wound healing. It is a randomized clinical trial, performed on 60 patients. Inclusion criteria are: 18-60 years old patients; burning extent with less than 10% of body surface; patients referring to the hospital in the first 24 h after burning and filling out the informed consent. Exclusion criteria include: co-morbidity; burn wound on face, fingers, perinea; electrical, chemical and respiratory burns. The patients are divided into intervention and control groups based on random number table. In the intervention group, patient wounds are covered with a thin layer of organic honey, expecting to lead to qualitative and quantitative results of 92 national standard and make microbial tests negative. Wounds of the patients in the control group are covered with a thin layer of Nitrofurazone (usual dressing). Daily wound dressing will continue until the sites are completely healed in both groups. Microbial culture samples are taken from the wounds on 1st, 7th and 14th days of treatment and sent to the pathology laboratory on day 14th. Wound healings are daily detected by photography and the infection signs and pain rates will be evaluated during dressing treatment. Patients' wound scar will be inspected 6 months after the first day of their reference. Speed of wound healing, pain, infection, scar, cost dressing and pathologic criteria will be compared in both groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201205158177N3**
Registration date: **2013-07-22, 1392/04/31**
Registration timing: **prospective**

Last update:
Update count: **0**

Registration date

2013-07-22, 1392/04/31

Registrant information

Name
Mohammad Javad Fatemi
Name of organization / entity
Burn Research Center of Tehran University of Medical Sciences
Country
Iran (Islamic Republic of)
Phone
+98 21 8888 4275
Email address
mj-fatemi@sina.tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences

Expected recruitment start date

2013-08-23, 1392/06/01

Expected recruitment end date

2015-09-23, 1394/07/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing effect of organic honey and Nitrofurazone on second degree burn wound healing

Public title

The effect of organic honey on second degree burn wound healing

Purpose

Treatment

Inclusion/Exclusion criteria
Inclusion criteria: 1- Both sexes 2 - Age 18-60 year old 3- Referral in 24 hours after burn injury 4- Burn with of less than 10% TBSA 5- Filling informed consent Exclusion criteria: 1- Co-morbidity 2-Electrical, chemical, inhalation burn injury 3- Facial, fingers, perinea burn injury
Age
From **18 years** old to **60 years** old
Gender
Both

Phase
1-2
Groups that have been masked
No information
Sample size
Target sample size: **60**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Not 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 Tehran University of Medical Sciences
Street address
Tehran
City
Tehran
Postal code
1417653761
Approval date
2013-05-08, 1392/02/18
Ethics committee reference number
91-03-129-19146-82523

Health conditions studied

1

Description of health condition studied
Burn
ICD-10 code
T20, T21,
ICD-10 code description
Burns and corrosions of external body surface, specified by site

Primary outcomes

1

Description
Epithelization
Timepoint
Daily after beginning of intervention and 14th day after beginning of intervention with biopsy
Method of measurement
Clinical assessment, Photography, Biopsy

2

Description
Cost
Timepoint
After ending intervention
Method of measurement
Calculation of dressing costs per group

Secondary outcomes

1

Description
Scar
Timepoint
Six months after beginning of intervention
Method of measurement
Vancouver Scar Scale

2

Description
Pain
Timepoint
Daily after beginning of intervention
Method of measurement
Visual Analogue Scale

3

Description
Infection
Timepoint
Days 1, 3, 7 after beginning of intervention
Method of measurement
Wound Culture

Intervention groups

1

Description
Intervention: In the intervention group, patient wounds are covered with a thin layer of organic honey, expecting to lead to qualitative and quantitative results of 92 national standard and make microbial tests negative. Dressing will be continues daily till complete healing of

the wound.

Category

Treatment - Other

2

Description

Control group: Dressing burn wound with a thin layer of silver sulfadyazine ointment (usual dressing). Dressing will be continues daily till complete healing of the wound.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Motahari Burn Hospital

Full name of responsible person

Mohammad Javad Fatemi

Street address

Shahid Motahari Burn Hospital, Rashid Yasami Ave, Vali Asr Ave, Tehran

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research of Tehran university of Medical Sciences

Full name of responsible person

Akbar Fotouhi

Street address

Central Department of Tehran University of Medical Sciences, Keshavarz Bvld, Tehran

City

Tehran

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice chancellor for research of Tehran 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

Burn Research Center

Full name of responsible person

Tooran Bagheri

Position

Bachelor of Nursing

Other areas of specialty/work

Street address

Burn Research Center, Shahid Motahari Burn Hospital, Rashid Yasami Ave, Vali Asr Ave, Tehran

City

Tehran

Postal code

1196714353

Phone

+98 21 8888 4275

Fax

Email

tooran_bagheri@yahoo.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Burn Research Center

Full name of responsible person

Mohammad Javad Fatemi

Position

Associate Professor of Plastic and Reconstructive Surgery

Other areas of specialty/work

Street address

Burn Research Center, Shahid Motahari Burn Hospital, Rashid Yasami Ave, Vali Asr Ave, Tehran

City

Tehran

Postal code

1196714353

Phone

+98 21 8888 4275

Fax

Email

mj-fatemi@sina.tums.ac.ir

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Burn Research Center

Full name of responsible person

Tooran Bagheri

Position

Bachelor of Nursing

Other areas of specialty/work

Street address

Burn Research Center, Shahid Motahari Burn Hospital,

Rashid Yasami Ave, Vali Asr Ave, Tehran

City

Tehran

Postal code

1196714353

Phone

+98 21 8888 4572

Fax

Email

tooran_bagheri@yahoo.com

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