

Clinical Trial Protocol

Iranian Registry of Clinical Trials

05 Jun 2026

Evaluation of wound healing in two methods of silver ointment and coriander oil in patients with second degree burns

Protocol summary

Study aim

Comparison of wound healing effect between silver ointment and coriander oil in patients with second degree burns

Design

Using random block method, the first group of 33 patients apply 1% silver sulfadiazine ointment at a rate of 200 mg per day and the second group of 33 patients apply coriander oil at a rate of 200 mg once a day on the burn areas. After rinsing with normal saline serum, the wound is placed in the air for 5 minutes to dry. Spread a thin layer of sterile abscess on the wound and put a light dressing of sterile gas on it. Wound dressings are changed daily. When the wound has a clear appearance, pink color, odor and has a covering texture, it is considered improved. For scientific confidence, all silver ointments and coriander oil will be provided by a manufacturer. Every 7 days. Macroscopic recovery of patients is performed by a specialist observation and completion of a checklist. The checklist includes demographic characteristics and location and extent of the burn and the characteristics of the burn and the type of ointment used.

Settings and conduct

Wound healing rate according to ocular criteria in all burn patients referred to hospital burn ward The rate of recovery is assessed every 7 days and the rate of recovery of both groups is compared

Participants/Inclusion and exclusion criteria

Inclusion criteria: All adult patients who present to the hospital with second-degree burns Exclusion criteria: 1- Children 2- People who do not consent to participate in this study 3- People with underlying diseases Diabetes Immune system or use immunosuppressive drugs

Intervention groups

Intervention group: Using coriander oil in burns Control group: use of silver ointment on burns

Main outcome variables

Primary outcome: Tissue epithelialization Secondary

consequence: Complete burn wound healing time (observable complete wound closure)

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20220414054533N1**

Registration date: **2022-10-22, 1401/07/30**

Registration timing: **registered_while_recruiting**

Last update: **2022-10-22, 1401/07/30**

Update count: **0**

Registration date

2022-10-22, 1401/07/30

Registrant information

Name

Unes Ehsanollahy

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 922 692 3890

Email address

dr.y.ehsanollahy@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-06-22, 1401/04/01

Expected recruitment end date

2022-12-22, 1401/10/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of wound healing in two methods of silver ointment and coriander oil in patients with second degree burns

Public title

Evaluation of wound healing in two methods of silver ointment and coriander oil in patients with second degree burns

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

All patients who come to the hospital with a second-degree burn

Exclusion criteria:

Children People who do not agree to participate in this study People with underlying diseases of diabetes Immunodeficiency or use immunosuppressive drugs

Age

From **2 years** old to **60 years** old

Gender

Both

Phase

0

Groups that have been masked

- Data analyser

Sample size

Target sample size: **66**

Randomization (investigator's opinion)

Randomized

Randomization description

Patients are assigned to two treatment groups A and B using the balanced block randomization method through <https://www.sealedenvelope.com/simple-randomiser/v1/lists>. The size of each block is 6 and the total number of blocks is 11 . Balanced randomization allocation for the participants in the current study, the effect of silver sulfadiazine ointment 1% (A) and beneh oil (B) on wound healing is investigated.

Blinding (investigator's opinion)

Single blinded

Blinding description

Checklist information is provided by the secretary of the department in which people with national code are registered to the person responsible for the analysis and statistical analysis of the plan. After entering SPSS and coding 1 and 2, the results of the evaluation will be analyzed by the professor of statistics, separated into intervention and control groups (which only the secretary of the department knows about). and the professor of statistics is not aware of which medicinal ointment the patient received. The data analyst and the safety monitoring committee are not aware of which drugs the patients took.

Placebo

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics committee of qazvin University of Medical Sciences

Street address

Rajaei Hospital. Qazvin

City

Qazvin

Province

Qazvin

Postal code

3413996134

Approval date

2021-10-17, 1400/07/25

Ethics committee reference number

IR.QUMS.REC.1400.314

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

burning

ICD-10 code

T31.1

ICD-10 code description

Burns involving 10-19% of body surface

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

Epithelization of the tissues

Timepoint

Every seven days

Method of measurement

Complete wound closure visually

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

Time to complete burn wound healing

Timepoint

Every 7 days

Method of measurement

Based on ocular criteria

Intervention groups

1

Description

Intervention group: in the second group with 33 patients, coriander oil at the rate of 200 mg once a day is prescribed to be applied on the burned areas. In this way, after rinsing with normal saline serum, the wound is placed in the presence of air for 5 minutes to dry, and then a thin layer is spread on the wound with a sterile swab and a light dressing of sterile gas is placed on it. Wound dressings are changed daily until the wound heals.

Category

Treatment - Drugs

2

Description

Control group: in the first treatment group with 33 patients, 1% silver cesulfadiazine ointment at a dose of 200 mg per day

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Rajaei hospital

Full name of responsible person

Younes Ehsanollahi

Street address

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Qazvin University of Medical Sciences

Full name of responsible person

Unes Ehsanollahy

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34197-59811

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medicine@qums.ac.ir

Grant name

Grant code / Reference number

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

No

Title of funding source

Qazvin 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

Qazvin University of Medical Sciences

Full name of responsible person

Unes Ehsanollahy

Position

Resident

Latest degree

Medical doctor

Other areas of specialty/work

General Surgery

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Person responsible for scientific inquiries

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Full name of responsible person

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Position

Resident

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Other areas of specialty/work
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Person responsible for updating data

Contact
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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
Undecided - It is not yet known if there will be a plan to make this available
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
Undecided - It is not yet known if there will be a plan to make this available
Data Dictionary
Undecided - It is not yet known if there will be a plan to make this available