Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

The effects of Thyme essential oil on infection control of second-degree burns wounds

Protocol summary

Summary

The objective of this clinical trial is to evaluate the effect of herbal essential oil of Thyme on infection control of second-degree burns wounds. Study groups: outpatients and inpatients of ValiAsr hospital will enter to the study. Sample size: A total of 60 patients will be admitted with obtaining informed consent. This study is not blinded and patients will be randomly divided into two groups of control (n = 30) and intervention (n = 30). Major eligibility criteria of participants: patients with second degree burn wounds; In-patients or Out-patients; Patients Aged 14 to 50 Years ; patients of both sexes; preferably within 24 hours of burning; and informed consent form. Exclusion criteria: diseases; electrical; chemical; respiratory burns; pregnant women; old burns for both groups; the standard treatment will be performed. For the test group, in addition to standard therapy, diluted essential oil will use. Grid and depth of wound in both control and experimental groups before and after the intervention will be assessed by the investigator. Primary outcome time point will be measured before the intervention and every 3 days.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017032726394N3**
Registration date: **2017-05-28, 1396/03/07**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2017-05-28, 1396/03/07

Registrant information

Name

Mohammad Arjomandzadegan

Name of organization / entity

Arak University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Arak University of Medical Sciences

Expected recruitment start date

2017-05-22, 1396/03/01

Expected recruitment end date

2018-05-22, 1397/03/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effects of Thyme essential oil on infection control of second-degree burns wounds

Public title

Infection control in burn wounds by herbal material

Purpose

Treatment

Inclusion/Exclusion criteria

Major eligibility criteria of participants: patients with second degree burn wounds; Inpatients or outpatients; Patients Aged 14 to 50 Years ; patients of both sexes; preferably within 24 hours of burning; and informed consent form. Exclusion criteria: other serious diseases; electrical; chemical; respiratory burns; pregnant women;

old burns

Age

From **14 years** old to **50 years** old

Gender

Both

Phase

2-3

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

Table of random numbers

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Arak University of Medical Sciences

Street address

Ethics committee of Arak University of Medical Sciences, Vice chancellor for research

City

Arak

Postal code

3819693345

Approval date

2016-06-13, 1395/03/24

Ethics committee reference number

IR.ARAKMU.REC.1395.108

Health conditions studied

1

Description of health condition studied

infection control in burn wounds

ICD-10 code

X10; X11;

ICD-10 code description

Contact with hot drinks, food, fats and cooking oils; Contact with hot tap-water; Contact with other hot fluids

Primary outcomes

1

Description

Wound surface

Timepoint

The ulcer would be follow up during two weeks and at the end of three days the ulcer will be assessed.

Method of measurement

photography will be done by camera from patients wounds.

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Rinse with saline and Silver ointment. In addition, the thyme essential oil diluted spray on the wound, 1 to 5 times/day, depending on the patient's condition. Wound healing will evaluate.

Category

Treatment - Drugs

2

Description

Control group: Rinse with saline and Silver ointment and treated

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Infectious Diseases Research Center, Arak University of Medical Sciences

Full name of responsible person

Dr. Mohammad Arjomandzadegan

Street address

Infectious Diseases Research Center, Medicine Faculty, Arak University of Medical Sciences

City

Arak

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Arak University of Medical Sciences, Arak, IR. IRAN

Full name of responsible person

Dr Mohammad Rafiee

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Vice chancellor for research,Pardis of Arak University of Medical Sciences, Basidj Bridge, Sadasht, Arak, IR. IRAN

City

Arak

Grant name

2691

Grant code / Reference number

2691

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

Yes

Title of funding source

Vice chancellor for research, Arak University of Medical Sciences, Arak, IR. IRAN

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

Infectious Diseases Research Center, Arak University of Medical Sciences

Full name of responsible person

Ghasem Habibi Dehfooli

Position

Research Assistant

Other areas of specialty/work

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Marjan Salehi

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Research Assistant

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