

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

Effect of Thyme Essence on Infection Control of Sutured Wounds

Protocol summary

2018-12-03, 1397/09/12

Study aim

Effect of thyme essential oil on the control of sutured wound infection

Design

Sixty patients are selected after getting their informed consent. The study is not blinded and the patients are randomly divided into two groups of intervention and control groups of 30. Standard treatment are performing for both groups. For the test group, in addition to the standard treatment, diluted Thyme essential oil is used. The ulcer in both control and test groups is evaluated by the investigator before and after intervention.

Settings and conduct

Vali Asr Hospital in Arak

Participants/Inclusion and exclusion criteria

Patients with a stitched ulcer, Hospitalization or non-hospitalization: age between 14 to 60 years, Both sexes: Referral preferably in the first 24 hours after surgery, Completion of informed consent form: Exclusion criteria: underlying diseases, burns, open and associated bleeding ulcers

Intervention groups

Standard treatment is delivered for both groups. For the test group, in addition to standard treatment, diluted oil is also used.

Main outcome variables

Infection of stitched wounds

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20161017030336N2**

Registration date: **2018-12-03, 1397/09/12**

Registration timing: **registered_while_recruiting**

Last update: **2019-02-19, 1397/11/30**

Update count: **1**

Registration date

Registrant information

Name

Ghasem Habibi

Name of organization / entity

Islamic azad university

Country

Iran (Islamic Republic of)

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Email address

dr.habibi@arakmu.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-08-23, 1397/06/01

Expected recruitment end date

2019-08-23, 1398/06/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of Thyme Essence on Infection Control of Sutured Wounds

Public title

Effect of Thyme Essence on Infection Control of Sutured Wounds

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

The patient has a stitched wound, Inpatient or non-hospitalized, ages 14 to 60 years, Patients of both sexes' Referral preferably in the first 24 hours after surgery,

Completion of informed consent form.

Exclusion criteria:

Underlying diseases, Burns, Open wounds, bleeding

Age

From **14 years** old to **60 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **70**

Randomization (investigator's opinion)

Randomized

Randomization description

Simple randomization, so that the patients included in the study are all divided into two equal groups. One of the groups is considered as the treatment group and the other group is considered.

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 Arak University of Medical Sciences

Street address

Basidj Bridge, Sadasht.

City

Arak

Province

Markazi

Postal code

3819693345

Approval date

2018-01-03, 1396/10/13

Ethics committee reference number

IR.ARAKMU.REC.1396.279

Health conditions studied

1

Description of health condition studied

Complications of surgical wound

ICD-10 code

T81.4

ICD-10 code description

Infection following a procedure

Primary outcomes

1

Description

Wound infection with discharge test

Timepoint

Daily for first 72 to 96 hours after surgery, then every 3 days for up to one month

Method of measurement

clinical examination

Secondary outcomes

empty

Intervention groups

1

Description

First intervention group: Washing with normal saline, spraying diluted thyme essential oil spray on the wound, put sterilized gas impregnated with diluted essential oil on the wound and closed with the band. This is done 1-2 times a day, depending on the patient's condition.

Category

Treatment - Drugs

2

Description

Second intervention group: Normal saline was washed with silver sulfadiazine ointment. Then sterile gas impregnated with silver sulfadiazine ointment is laid on the wound and closed with the band. This is done 1-2 times a day, depending on the patient's condition.

Category

Treatment - Drugs

3

Description

Control group: Normal saline and sterile gauze dressing. Then the sterilized sterilized gas with normal saline is laid on the wound and closed with the band. This is done 1-2 times a day, depending on the patient's condition.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Hospital of Vali-e Asr Arak

Full name of responsible person

Dr. Mohammad Arjomandzadegan

Street address

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

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

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Full name of responsible person

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Grant name

Grant code / Reference number

2977

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

Yes

Title of funding source

Arak 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

Arak University of Medical Sciences

Full name of responsible person

Ghasem Habibi

Position

Research Assistant

Latest degree

Bachelor

Other areas of specialty/work

Traditional Medicine

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Person responsible for scientific inquiries

Contact

Name of organization / entity

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Full name of responsible person

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Position

Associate Professor

Latest degree

Ph.D.

Other areas of specialty/work

Microbiology

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Person responsible for updating data

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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

Not applicable

Informed Consent Form

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

Clinical Study Report

Not applicable

Analytic Code

Not applicable

Data Dictionary

Not applicable