Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Effect of Thyme Essence on Infection Control of Sutured Wounds

Protocol summary

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
2018-12-03, 1397/09/12

Registrant information
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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 sulfadiarin 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

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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

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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