

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Jun 2026

Comparison of open pilonidal sinus surgical wound healing following dressing by honey, olive oil, normal saline and honey-olive oil mixture

Protocol summary

Summary

Study purpose : comparison of the healing of pilonidal sinus wound(Created after open surgery) after dressing with honey, olive oil, normal saline, combination of olive oil and honey. The size of the skin defect after pilonidal sinus open surgery between 5 and 10 cm, is an inclusion criteria. Autoimmune and chronic diseases, infectious abscess, long-term use of corticosteroids and history of chemotherapy are the exclusion criteria. Study population is all patients under pilonidal sinus open surgery referred to Khorramabad Shohada Ashayer Hospital. The sample size is 168 patients; that will be allocated to the intervention group (according to the title of study) and a control group (receiving normal saline alone). Double-blind study for researcher and analyser will be conducted. After the surgery in the operating room, in each of the four groups on the surgical site wound, washing with wet sterile gas and normal saline, will be performed. Then daily washing with normal saline will be done for a week. And then daily desired dressing (honey, olive oil, or both) in a uniform layer on the wound will be performed. In the control group, the same process as a month, daily washing with normal saline alone will continue. All groups after four weeks, see a doctor and wound healing, new tissue formation at the surgical site and local infection will be observed and recorded. Next visit and check for recurrence, three months later will be done.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015012020734N1**

Registration date: **2015-07-06, 1394/04/15**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-07-06, 1394/04/15

Registrant information

Name

Younes Azizpourfard

Name of organization / entity

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Country

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Recruitment status

Recruitment complete

Funding source

Vice Chancellor for research of Lorestan University of Medical Sciences.

Expected recruitment start date

2015-03-21, 1394/01/01

Expected recruitment end date

2015-06-20, 1394/03/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of open pilonidal sinus surgical wound healing following dressing by honey, olive oil, normal saline and honey-olive oil mixture

Public title

Comparison of open pilonidal sinus surgical wound healing following dressing by honey, olive oil, normal saline and honey-olive oil mixture

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: 15-40 years old; the size of the skin defect after pilonidal sinus open surgery between 5 and 10 cm. Exclusion criteria: Diabetes, heart disease, renal, infectious abscess, an autoimmune disease, a history of chemotherapy, long-term use of corticosteroids.

Age

From **15 years** old to **40 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **168**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

samples will randomly placed in each of the four groups.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Lorestan University of Medical Sciences

Street address

3th km to khgoramabad-Boroujerd road

City

khgoramabad

Postal code

Approval date

2015-06-14, 1394/03/24

Ethics committee reference number

LUMS.REC.1394.12

Health conditions studied

1

Description of health condition studied

Pilonidal cyst

ICD-10 code

L05

ICD-10 code description

fistula sinus coccygeal or pilonidal

Primary outcomes

1

Description

Healing of pilonidal sinus wound (after open surgery)

Timepoint

One month and three months after intervention

Method of measurement

Assessed by the surgeon

2

Description

Infection of pilonidal sinus wound (after open surgery)

Timepoint

One month and three months after intervention

Method of measurement

Assessed by the surgeon

Secondary outcomes

1

Description

Adverse reactions (allergy)

Timepoint

In all phases of the project

Method of measurement

By examination and regular visits and patient complaints

2

Description

Recurrence of pilonidal sinus

Timepoint

In all phases of the project

Method of measurement

By examination and regular visits and patient complaints

Intervention groups

1

Description

The first intervention group: dressing with honey.

Category

Treatment - Drugs

2

Description

The second intervention group: dressing with olive oil.

Category

Treatment - Drugs

3

Description

The third intervention group: dressing with a combination of honey and olive oil.

Category

Treatment - Drugs

4

Description

Control: washing with normal saline.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Shohada Ashayer Hospital of Khorramabad

Full name of responsible person

Hormoz Mahmoudvand

Street address

City

Khorramabad

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for research of Lorestan University of Medical Sciences

Full name of responsible person

Dr. varzi

Street address

3th km to Khorramabad-Boroujerd road

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Khorramabad

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 Lorestan 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

Lorestan University of Medical Science

Full name of responsible person

Younes AzizpourFard

Position

Medical student

Other areas of specialty/work

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Person responsible for scientific inquiries

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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