Clinical Trial Protocol
Iranian Registry of Clinical Trials

20 Nov 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

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Name of organization / entity
Lorestan University of Medical Sciences
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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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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