Clinical Trial Protocol
Iranian Registry of Clinical Trials

20 Nov 2026

Effect of turmeric extract versus topical phenytoin and placebo on healing of open wound after pilonidal sinus surgery: a double blind randomized clinical trial

Protocol summary

Summary

Objectives: To assess the effect of turmeric extract versus topical phenytoin and placebo on healing of open wound after pilonidal sinus surgery. Design: A double blind randomized clinical trial. Setting and conduct: The eligible patients with pilonidal sinus who will undergo surgery in Besat Hospital during the study period will be enrolled into the trial. Inclusion criteria: Age of 18 to 65 years; pilonidal sinus candidate for surgery. Exclusion criteria: Diabetes; Immunodeficiency; local abscess. Intervention group 1: Topical cream including turmeric extract on surgical wound twice a day for 2 weeks. Intervention group 2: Topical cream including phenytoin on surgical wound twice a day for 2 weeks. Control group: Topical placebo cream on surgical wound twice a day for 2 weeks Primary outcome: Healing of surgical wound one and two week and also one month after surgery via physical examination. Randomization: Random assignment of the patients to the intervention and control groups through drawing of lots. Blinding: Patients will be unaware of the type of intervention. The physician who will examine the patients will not be aware of the intervention. Therefore, the trial will be run as double blind.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201711129014N200**
Registration date: **2017-11-14, 1396/08/23**
Registration timing: **prospective**

Last update:
Update count: **0**

Registration date

2017-11-14, 1396/08/23

Registrant information

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Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Vice-chancellor for Research and Technology, Hamadan University of Medical Sciences

Expected recruitment start date

2017-11-21, 1396/08/30

Expected recruitment end date

2018-01-20, 1396/10/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of turmeric extract versus topical phenytoin and placebo on healing of open wound after pilonidal sinus surgery: a double blind randomized clinical trial

Public title

Effect of turmeric extract versus topical phenytoin and placebo on healing of open wound after pilonidal sinus surgery

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Age of 18 to 65 years; pilonidal sinus candidate for surgery. Exclusion criteria: Diabetes; Immunodeficiency; local abscess.

Age

From **18 years** old to **65 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **63**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Randomization: Random assignment of the patients to the intervention and control groups through drawing of lots. Blinding: Patients will be unaware of the type of intervention. The physician who will examine the patients will not be aware of the intervention. Therefore, the trial will be run as double blind.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Hamadan University of Medical Sciences

Street address

Vice-chancellor for Research and Technology, Hamadan University of Medical Sciences, Shahid Fahmideh Ave

City

Hamadan

Postal code

Approval date

2017-10-14, 1396/07/22

Ethics committee reference number

IR.UMSHA.REC.1396.495

Health conditions studied

1

Description of health condition studied

Pilonidal sinus

ICD-10 code

L05

ICD-10 code description

Pilonidal cyst

Primary outcomes

1

Description

Healing of surgical wound

Timepoint

one and two week and also one month after surgery

Method of measurement

Via physical examination

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group 1: Topical cream including turmeric extract on surgical wound twice a day for 2 weeks.

Category

Treatment - Drugs

2

Description

Intervention group 2: Topical cream including phenytoin on surgical wound twice a day for 2 weeks.

Category

Treatment - Drugs

3

Description

Control group: Topical placebo cream on surgical wound twice a day for 2 weeks

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Besat Hospital

Full name of responsible person

Dr Nayereh Erfani Moghaddam

Street address

Besat Hospital, Shahed Square

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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice-chancellor for Research and Technology, Hamadan University of Medical Sciences
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Dr Saeid Bashirian
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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 and Technology, Hamadan 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

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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