Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

Analyzing the effect of Zingiber Officinale on reduction of postoperative pain after hernia and hydrocele operation under general anesthesia in patients of the Shahrekord Kashani hospital surgery ward

Protocol summary

Summary

The aim of this study is to assess the effect of Zingiber Officinale on incision site pain in patients going under hernia or hydrocele surgery under general anesthesia. First, 90 patients meeting inclusion criteria and lacking exclusion criteria will be selected. The main inclusion criteria are the age of 15 to 55 years, not taking ginger on regular bases and not being subject to substance abuse. The main exclusion criteria are taking corticosteroids or NSAID before the study, allergy to ginger, and surgery duration more than 45 minutes. Patients will then be divided randomly into two groups of intervention and control. The intervention group will receive 4 Zintoma capsules containing 250 mg of rhizome powder of Zingiber Officinale with 20 cc drinking water 2 hours prior to the surgery. The control group will receive 4 capsules containing starch powder with the same amount of water. All patients will go under general anesthesia with the same medications and all will receive 20 mg/kg Fentanyl as analgesic after surgery. The pain of the surgery incision will be assessed 30 minutes, 1,2, 6, and 24 hours after surgery using VAS scale.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017051533978N1**
Registration date: **2017-10-11, 1396/07/19**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2017-10-11, 1396/07/19

Registrant information

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Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

The research center of Shahrekord University of Medical Sciences

Expected recruitment start date

2017-05-15, 1396/02/25

Expected recruitment end date

2017-06-05, 1396/03/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Analyzing the effect of Zingiber Officinale on reduction of postoperative pain after hernia and hydrocele operation under general anesthesia in patients of the Shahrekord Kashani hospital surgery ward

Public title

Analyzing the effect of Zingiber Officinale on reduction of postoperative pain after hernia and hydrocele operation under general anesthesia

Purpose

Treatment

Inclusion/Exclusion criteria
Inclusion criteria: Elective hydrocele or hernia surgery; surgery duration less than 45 minutes; patients with ASA class I-III; not taking ginger on regular basis; not taking corticosteroids, no allergy to ginger; no allergy to NSAIDS or Acetaminophen; not taking anticoagulatory agents; Exclusion criteria: Surgury duration more than 45 minutes; change in the course of the surgery(complications e.g. bleeding or change of diagnosis e.g. malignancy); no tendency to participate; hematologic or gastrointestinal disorders; substance abuse; any type of fever, infection or disease post surgery.
Age
From **15 years** old to **55 years** old
Gender
Both

Phase
2-3
Groups that have been masked
No information
Sample size
Target sample size: **90**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Double blinded
Blinding description
Placebo
Used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics committee of Shahrekord University of Medical Sciences
Street address
Shahrekord University of Medical Sciences, Kashani Blv.
City
Shahrekord
Postal code
Approval date
2017-05-03, 1396/02/13
Ethics committee reference number
IR.SKUMS.REC.1396.39

Health conditions studied

1

Description of health condition studied
Inguinal hernia
ICD-10 code
K40.9
ICD-10 code description
Unilateral or unspecified inguinal hernia, without obstruction or gangrene Inguinal hernia (unilateral) NOS

2

Description of health condition studied
Hydrocele
ICD-10 code
N43.3
ICD-10 code description
Hydrocele, unspecified

Primary outcomes

1

Description
Pain
Timepoint
30 minutes, 1, 2, 6 , and 24 hours after surgery
Method of measurement
VAS questionnaires

Secondary outcomes

empty

Intervention groups

1

Description
Zintoma capsule, 250 mg, Gol darou factory, 4 capsules 30 minutes before surgery
Category
Treatment - Drugs

2

Description
Starch powder capsule, 250 mg, 4 capsules 30 minutes before surgery
Category
Placebo

Recruitment centers

1

Recruitment center
Name of recruitment center
Kashani hospital of Shahrekord
Full name of responsible person
Street address
City

Shahrekord

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice chancellor for research center of Shahrekord University of Medical Sciences
Full name of responsible person
Kamal Solati Phd
Street address
Shahrekord University of Medical Sciences, Kashani Blvd.
City
Shahrekord
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 center of Shahrekord 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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Web page address

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