

Clinical Trial Protocol

Iranian Registry of Clinical Trials

07 Jul 2026

Assessing the effect of aromatherapy (Rosa damascene essence) on the postoperative pain intensity of inguinal hernia repair

Protocol summary

Study aim

Assessing the effect of aromatherapy (Rosa damascene essence) on the post-operative pain intensity of inguinal hernia repair

Design

Clinical trial study, randomized, double blind, duplicate and having control groups. Each group of 30 patients was designed from July to October, 2018.

Settings and conduct

The statistical population is the patients after inguinal hernia surgery in the surgical ward of Amirmomenin Hospital in Qeydar, Iran. After surgery and transferring the patients to ward, we will measure score pain of patients by visual analog scale (VAS) within 4,8,12 hours after surgery and if pain score was upper than 3 the patients will receive rosa damascene (experimental group) and sweet almond oil(control group) and their score pain will be measured again and the result will be compared.

Participants/Inclusion and exclusion criteria

Inclusion criteria: desiring to participate in the study, having inguinal hernia surgery, not having surgery history, having full awareness and cooperation, healthy smell status, healthy visual and mind status to see and understand VAS tool, being older than 18 years old and older, being able to understand Persian or Turkish language, Not having a history of allergy to plants, not having: Pregnancy, Hypertension, Coagulation disorder, Diabetes, Breathing disorder. Not having moderate to severe anxiety and not taking analgesic and anti- anxiety drugs and no addiction. Exclusion criteria: complications of post- surgery (bleeding, hematoma at the site of surgery), need to oxygen therapy after surgery, and patient's unwillingness to participate in the study after first intervention

Intervention groups

The patients will be randomly divided into 2 groups: the first group will inhale 40% rosa damascene essence and the second group will inhale sweet almond.

Main outcome variables

Post-operative pain

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20140304016843N12**

Registration date: **2018-07-28, 1397/05/06**

Registration timing: **prospective**

Last update: **2018-07-28, 1397/05/06**

Update count: **0**

Registration date

2018-07-28, 1397/05/06

Registrant information

Name

Nasrin Bahraminejad

Name of organization / entity

Zanjan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-08-01, 1397/05/10

Expected recruitment end date

2018-10-23, 1397/08/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date
empty

Scientific title
Assessing the effect of aromatherapy (Rosa damascene essence) on the postoperative pain intensity of inguinal hernia repair

Public title
The effect of aromatherapy with Rosa damascene on post-operative pain

Purpose
Supportive

Inclusion/Exclusion criteria
Inclusion criteria:
Desiring to participate in the study Having inguinal hernia surgery Not having surgery history Having full awareness and cooperation Healthy smell status Healthy visual and mind status to see and understand VAS tool Being older than 18 years old and older Being able to understand Persian or Turkish language Not having a history of allergy to plants Not having: Pregnancy, Hypertension, Coagulation disorder, Diabetes, Breathing disorder Not having moderate to severe anxiety and not taking analgesic and anti- anxiety drugs No addiction
Exclusion criteria:
Complications of post- surgery (bleeding, hematoma at the site of surgery) Need to oxygen therapy after surgery Patient's unwillingness to participate in the study after first intervention

Age
From **18 years** old

Gender
Both

Phase
N/A

Groups that have been masked

- Participant
- Care provider
- Outcome assessor

Sample size
Target sample size: **60**

Randomization (investigator's opinion)
Randomized

Randomization description
Candidate patient for inguinal hernia surgery will be selected through convenience sampling and with Block random allocation method will be applied to the case and control groups. we use of block randomization To create two identical groups, first for each of group will be allocated letters A and B. size of blocks will be foursome, After the list of all possible modes and assign a number to each one, some block will be selected through Table of random numbers until number of sample to be 60

Blinding (investigator's opinion)
Double blinded

Blinding description
In this study patients will be informed that they will participate in study but they will not notice that they are in the case group or in the control group. Samplers will

not notice that which group are the case group and which group are the control group (materials required for intervention will be given to samplers in the form two containers with the names A and B and will not be given explanatory about content of the container for them), Also, nurses are working in the department will not be informed of the case or control groups.

Placebo
Used

Assignment
Parallel

Other design features
Experimental double blind clinical trial study

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Zanjan University of Medical Sciences

Street address

Zanjan University of Medical Sciences, Azadi blvd

City

Zanjan

Province

Zanjan

Postal code

4581955159

Approval date

2018-05-29, 1397/03/08

Ethics committee reference number

IR.ZUMS.REC.1397.20

Health conditions studied

1

Description of health condition studied

Post-operative pain

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Post-operative pain

Timepoint

In 4, 8, and 12 hours after the transfer of the patient from the operating room to the surgical unit

Method of measurement

VAS (Visual analog Scale)

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: in this study, Intervention will be done in the form aromatherapy with Rosa damascene essence. After we have found that the result of skin sensitivity test for essence is negative, pain score of patient will be checked with visual analog scale (VAS) in 4,8,12 hours after surgery and if pain score of patients was upper than 3, five drops of Rosa damascene essence will be poured on cotton ball and pinned to the patient's shirt and Patients will inhale it for 20 minutes at a distance of 20 cm, then pain score will be measured with visual analog scale again. In all three interventions, if pain score of patient after aromatherapy was upper than 3, the patients will receive routine analgesics by the staff.

Category

Treatment - Drugs

2

Description

Control group: in control group, patient will receive aromatherapy like experimental group but this group will receive Sweet Almond Oil (placebo) instead of Rosa damascene essence and pain score of patients will be measured similar to the experimental group.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Amiralmomenin Hospital

Full name of responsible person

Abolfazl amini

Street address

Amiralmomenin Hospital, Shafa Street

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

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Full name of responsible person

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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

Zanjan 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

Contact

Name of organization / entity

Zanjan University of Medical Sciences

Full name of responsible person

Abolfazl Amini

Position

دانشجوی کارشناسی ارشد پرستاری داخلی جراحی

Latest degree

Bachelor

Other areas of specialty/work

Nursery

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Person responsible for scientific inquiries

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Position

Ph.D

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Ph.D.

Other areas of specialty/work

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Person responsible for updating data

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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

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available