

Clinical Trial Protocol

Iranian Registry of Clinical Trials

20 Jun 2026

Comparison of suppository morphine and intravenous pethidine on postoperative pain after laparoscopic cholecystectomy surgery

Protocol summary

Summary

The goal of this double blind study is comparison of suppository morphine and intravenous pethidine on postoperative pain after laparoscopic cholecystectomy surgery. Participants are 20-60 years old patients in American Society of Anesthesiologists (ASA) classes 1 or 2 candidate for laparoscopic cholecystectomy surgery. 46 patients divided to two equal groups of morphine and pethidine . Sensitivity to the opioids, liver or kidney failure, the consumption of opioid before surgery, acute respiratory failure, the consumption of mono amine oxidase (MAO) enzyme inhibitor drugs at the same time or during the last 14 days ago are exclusion criteria. All patients receive a same general anesthesia technique. At the end of anesthesia and before reverse time, one group receives 10 mg suppository morphine and other group receives 20 mg intravenous pethidine . Pain intensity measures with Visual Analog Scale (VAS) during 6 hours after surgery. The first analgesic request will compare in both groups. At the end, satisfaction from quality of pain relief records as: poor, moderate, well and excellent.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013012712295N1**

Registration date: **2013-11-28, 1392/09/07**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2013-11-28, 1392/09/07

Registrant information

Name

Reza Baghbanian

Name of organization / entity

Ahvaz Jundishapur Medical Science

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Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Ahvaz Jundishapur University of Medical Sciences

Expected recruitment start date

2013-01-20, 1391/11/01

Expected recruitment end date

2014-01-21, 1392/11/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of suppository morphine and intravenous pethidine on postoperative pain after laparoscopic cholecystectomy surgery

Public title

Comparison of suppository morphine and intravenous pethidine on postoperative pain

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: the age of 20 to 60 years; weight of 70 to 90 Kg; candidate of laparoscopic cholecystectomy; anesthesia risk 1 or 2 Exclusion criteria: sensitivity to the opioids; liver or kidney failure; the consumption of opioid

before surgery; acute respiratory failure; the consumption of mono amin oxidase(MAO) enzyme inhibitor drugs at the same time or during the last 14 days ago

Age

From **20 years** old to **60 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **46**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

This study is double-blind because patients and person who evaluate the pain intensity are not aware about interventions. In this study we uses single dose suppository morphine(10 mg) produce in Hamblen CO,Germany and intravenous pethidine(20 mg) produce in Aboureyhan CO,Iran At the enf of surgery.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Ahvaz Jundishapur University of Medical Sciences

Street address

Golestan Blv.

City

Ahvaz

Postal code

Approval date

2012-12-19, 1391/09/29

Ethics committee reference number

Eth- 671

Health conditions studied

1

Description of health condition studied

Pain

ICD-10 code

R52.0

ICD-10 code description

Acute pain

Primary outcomes

1

Description

Postoperative Pain

Timepoint

0 , 1 , 2 , 4 and 6 hours after extubation

Method of measurement

Visual Analog Scale

Secondary outcomes

1

Description

Amount of received opioid after surgery for pain control

Timepoint

during 48 hours after surgery

Method of measurement

Milligram

Intervention groups

1

Description

In first intervention group ,use of 10 mg suppository morphine at the end of surgery and before extubation.

Category

Treatment - Drugs

2

Description

In the second intervention, use of 20 mg intravenous pethidine at the end of surgery and before extubation.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Razi Hospital

Full name of responsible person

Reza Baghbanian

Street address

Palestin Avenue

City

Ahvaz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Ahvaz Jundishapur University of Medical Sciences

Full name of responsible person

Mostafa Fegghi

Street address

Golestan Blv.

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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, Ahvaz Jundishapur 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**

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Full name of responsible person

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Position

Anesthesia Resident

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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