

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

16 Sep 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 amin 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

##### Country

Iran (Islamic Republic of)

##### Phone

+98 61 1222 0168

##### Email address

baghbanian.r@ajums.ac.ir

##### 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.

**City**

Ahvaz

**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**

School of Medicine, Ahvaz Jundishapur University of Medical Sciences

**Full name of responsible person**

Reza Baghbanian

**Position**

Anesthesia Resident

**Other areas of specialty/work****Street address**

Razi Hospital

**City**

Ahvaz

**Postal code****Phone**

+98 61 1222 0168

**Fax**

+98 61 1222 0168

**Email**

Baghbanian.r@ajums.ac.ir

**Web page address**

### Person responsible for scientific inquiries

**Contact****Name of organization / entity**

School of Medicine, Ahvaz Jundishapur University of Medical Sciences

**Full name of responsible person**

Zahra Pourmehdi

**Position**

Assistant Professor of Anesthesia

**Other areas of specialty/work****Street address**

Razi Hospital

**City**

Ahvaz

**Postal code****Phone**

+98 61 1222 0168

**Fax**

+98 61 1222 0168

**Email**

Pourmehdi.z@ajums.ac.ir

**Web page address**

### Person responsible for updating data

**Contact****Name of organization / entity**

School of Medicine , Ahvaz Jundishapur University of Medical Sciences

**Full name of responsible person**

Reza Baghbanian

**Position**

Anesthesia Resident

**Other areas of specialty/work****Street address**

Razi Hospital

**City**

Ahvaz

**Postal code****Phone**

+98 61 1222 0168

**Fax**

+98 61 1222 0168

**Email**

Baghbanian.r@ajums.ac.ir

**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*