

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

19 Jun 2026

### Comparison of efficacy and side effects of morphine and diclofenac suppositories in post operative pain after appendectomy and inguinal hernia surgery in Fatemi hospital

#### Protocol summary

##### Summary

The aim of study is compare morphine suppository with a drug less harmful and beneficial (in terms of pain reduction) such as diclofenac suppository and found efficacy and side effects of morphine suppositories. Material and Methods : In this study, 75 patients with inguinal hernia surgery and appendectomy were randomly divided into 3 groups and 25 patients in each: first group received morphine suppositories (10mg) and the second group received diclofenac suppository (100mg) in 2, 6, 12, 24 hours and if VAS>4.0, received injective pethidine. In third group, to control of pain (VAS>4) received intramuscular pethidine (50mg) Prn.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2012103111338N1**  
Registration date: **2014-05-24, 1393/03/03**  
Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2014-05-24, 1393/03/03

##### Registrant information

##### Name

Godrat Akhavan Akbari

##### Name of organization / entity

Ardabil University of Medical Sciences, Fatemi Hospital Of Ardabil

##### Country

Iran (Islamic Republic of)

##### Phone

+98 45 1223 3032

##### Email address

g.akbari@arums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Ardabil University of Medical Sciences

##### Expected recruitment start date

2013-05-22, 1392/03/01

##### Expected recruitment end date

2013-11-22, 1392/09/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparison of efficacy and side effects of morphine and diclofenac suppositories in post operative pain after appendectomy and inguinal hernia surgery in Fatemi hospital

##### Public title

Efficacy and complications of morphine suppository

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: patients who are candidates for appendectomy and inguinal hernia surgery :Patients aged 70-18 years:Patients without underlying disease and drug consumption Exclusion criteria: Pregnant patients: patients with neurological disease or psychiatric disorders, patients with a history of seizures: patients with acute or chronic renal disease: patients with a history of peptic ulcer : patients with taking psychotropic drugs: abused alcohol or opioid drugs:,Hemorrhoid disease or disorder in anus

**Age**

From **18 years** old to **70 years** old

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

*No information*

**Sample size**

Target sample size: **75**

**Randomization (investigator's opinion)**

Randomized

**Randomization description****Blinding (investigator's opinion)**

Double blinded

**Blinding description****Placebo**

Not used

**Assignment**

Parallel

**Other design features****Secondary Ids**

empty

**Ethics committees****1****Ethics committee****Name of ethics committee**

Ardabil University of Medical Sciences

**Street address**

Ardabil

**City**

Ardabil

**Postal code****Approval date**

2013-04-28, 1392/02/08

**Ethics committee reference number**

ARUMS.REC.92.7

**Health conditions studied****1****Description of health condition studied**

acute postoperative pain

**ICD-10 code****ICD-10 code description****Primary outcomes****1****Description**

pain intensity(VAS)

**Timepoint**

in 2, 6, 12, 24 hours post operation

**Method of measurement**

based on graded ruler 0-10

**Secondary outcomes****1****Description**

1-sedation 2-nausea and vomiting

**Timepoint**

in 2, 6, 12, 24 hours post operation

**Method of measurement**

based on Ramsay Sedation Scale(0-5)

**Intervention groups****1****Description**

first group received morphine suppositories (10mg) in 2, 6, 12, 24 hours post operation if VAS>4.0

**Category**

Treatment - Drugs

**2****Description**

second group received diclofenac suppositories (100mg) in 2, 6, 12, 24 hours post operation if VAS>4.0

**Category**

Treatment - Drugs

**3****Description**

In third group, to control of pain (VAS>4) received intramuscular pethidine (50mg) Prn

**Category**

Treatment - Drugs

**Recruitment centers****1****Recruitment center****Name of recruitment center**

Fatemi Hospital of Ardabil

**Full name of responsible person**

Godrat Akhavan Akbari

**Street address**

Emam Khomeyni Street, Ardabil

**City**

Ardabil

**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Ardabil University of Medical Sciences

**Full name of responsible person**

Dr Godrat Akhavan Akbari

**Street address**

Emam Khomeyni Street, Ardabil

**City**

Ardabil

**Grant name**

**Grant code / Reference number**

**Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

Ardabil 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**

Ardabil University of Medical Sciences

**Full name of responsible person**

Dr Godrat Akhavan Akbari

**Position**

pain fellowship-lecturer

**Other areas of specialty/work**

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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*