# Clinical Trial Protocol
# Iranian Registry of Clinical Trials

07 Jul 2026

## Effects of Morphine analgesia on diagnostic accuracy of abdominal pain

## Protocol summary

**Summary**

The goal of this study (Phase IV) is to evaluate the effect of Morphine on the diagnostic process of acute abdominal pain. Two hundred patients with acute abdominal pain referring to the emergency department of Imam Reza Hospital, Mashhad, Iran during 2013-2014 are divided into two groups. Any patients with acute abdominal pain will be included in the study. Exclusion criteria are patients less than 18 years, pregnants, patients with the history of abdominal pain more than 3 days, hypotension (blood pressure less than 90 mmHg), traumatic patients, and those with a history of allergy to Morphine and its derivatives. Patients with an even medical record number as the study group and those with an odd medical record number as the control group. Both patients and physicians are blinded to patients' assignment. The study group will receive 0.1 mg/kg Morphine (IM). If the preoperative time becomes more than 5 hours, the morphine dosage will be repeated with the primary dose. Normal saline in equal volume of Morphine Sulfate 0.1 mg/kg as a placebo is given to the control group. Other diagnostic and treatment procedures are the same in both groups. After two hours, all patients are examined by the same resident of surgery who is blinded to the patient's assignment. The diagnosis of the resident before and after the intervention will be recorded. After etiologic diagnosis of the pain, the effect of Morphine will be evaluated. The primary outcome measure of the study is the disease diagnosis. There is no secondary outcome to be measured.

## General information

**Acronym**

**IRCT registration information**

IRCT registration number: **IRCT2015092224128N1**
Registration date: **2015-12-26, 1394/10/05**
Registration timing: **retrospective**
Last update:
Update count: **0**

**Registration date**

2015-12-26, 1394/10/05

**Registrant information**

**Name**
Mohammad Yarani
**Name of organization / entity**
Birjand University of Medical Sciences
**Country**
Iran (Islamic Republic of)
**Phone**
+98 56 3222 2300
**Email address**
mohammad.yarani@gmail.com

**Recruitment status**

**Recruitment complete**

**Funding source**

Vice Chancellor for Research, Birjand University of Medical Sciences

**Expected recruitment start date**

2014-03-21, 1393/01/01

**Expected recruitment end date**

2015-03-21, 1394/01/01

**Actual recruitment start date**

empty

**Actual recruitment end date**

empty

**Trial completion date**

empty

**Scientific title**

Effects of Morphine analgesia on diagnostic accuracy of abdominal pain

**Public title**

Morphine effects in in patients with abdominal pain

**Purpose**

Treatment

**Inclusion/Exclusion criteria**

Inclusion criteria: Any patient with acute abdominal pain
Exclusion criteria: Patients less than 18 years old; Pregnancy; Patients with the history of abdominal pain more than 3 days; Hypotension (blood pressure less than 90 mmHg); Traumatic patients; Patients with a history of allergy to morphine and its derivatives

**Age**
From **18 years** old to **90 years** old

**Gender**
Both

**Phase**
4

**Groups that have been masked**
*No information*

**Sample size**
Target sample size: **200**

**Randomization (investigator's opinion)**
Randomized

**Randomization description**

**Blinding (investigator's opinion)**
Double blinded

**Blinding description**

**Placebo**
Used

**Assignment**
Parallel

**Other design features**
Using random number table for sampling, patients with an even medical record number were assigned to the study group and those with an odd medical record number were assigned to the control group.

## Secondary Ids

empty

## Ethics committees

### 1

**Ethics committee**

**Name of ethics committee**
Ethics committee of Birjand University of Medical Sciences

**Street address**
Ghaffari Boulvard

**City**
Birjand

**Postal code**

**Approval date**
2014-08-20, 1393/05/29

**Ethics committee reference number**
931245

## Health conditions studied

### 1

**Description of health condition studied**
Acute abdomen

**ICD-10 code**
R10.1, R10

**ICD-10 code description**
Pain localized to upper abdomen; Epigastric pain; Pelvic and perineal pain; Pain localized to other parts of lower abdomen; Other and unspecified abdominal pain: Abdominal tenderness NOS, Colic: NOS, infantile

## Primary outcomes

### 1

**Description**
Disease diagnosis

**Timepoint**
Two hours after intervention

**Method of measurement**
Physical examination

## Secondary outcomes

### 1

**Description**
No secondary outcome measure

**Timepoint**
-

**Method of measurement**
-

## Intervention groups

### 1

**Description**
Administration of 0.1 mg/kg Morphine Sulfate (Darou Pakhsh, Iran) in the study group

**Category**
Diagnosis

### 2

**Description**
Administration of normal saline in equal volume of Morphine Sulfate 0.1 mg/kg as a placebo in the control group

**Category**
Diagnosis

## Recruitment centers

### 1

**Recruitment center**

**Name of recruitment center**
Emergency Department of Immam Reza Hospital

**Full name of responsible person**
Mahtab Ghaemi

**Street address**
Imam Reza Hospital, Ebnesina Street

**City**
Mashhad

## Sponsors / Funding sources

**1**

**Sponsor**
**Name of organization / entity**
Vice chancellor, Birjand University of Medical Science
**Full name of responsible person**
Dr Asghar zZarban
**Street address**
Ghaffari Boulvard
**City**
Birjand
**Grant name**
**Grant code / Reference number**
**Is the source of funding the same sponsor organization/entity?**
Yes
**Title of funding source**
Vice chancellor, Birjand University of Medical Science
**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**
Birjand University of Medical Sciences
**Full name of responsible person**
Mahtab Ghaemi
**Position**
Scholar
**Other areas of specialty/work**
**Street address**
Ghaffari Boulvard
**City**
Birjand
**Postal code**
**Phone**
+98 51 3842 4981
**Fax**
**Email**
ghaemim881@gmail.com
**Web page address**

## Person responsible for scientific inquiries

**Contact**
**Name of organization / entity**
Birjand University of Medical Science
**Full name of responsible person**
Dr Mohammad Yarani
**Position**
National Board of Surgery
**Other areas of specialty/work**
**Street address**
Birjand, Department of Surgery, Imam Reza Hospital
**City**
Birjand
**Postal code**
**Phone**
+98 56 3222 2300
**Fax**
**Email**
mohammadyarani@gmail.com
**Web page address**

## Person responsible for updating data

**Contact**
**Name of organization / entity**
Birjand University of Medical Sciences
**Full name of responsible person**
Mahtab Ghaemi
**Position**
Scholar
**Other areas of specialty/work**
**Street address**
Ghaffari Boulvard
**City**
Birjand
**Postal code**
**Phone**
+98 51 3842 4981
**Fax**
**Email**
ghaemim881@gmail.com
**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*