

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 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, pregnant, 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 Boulevard

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 Imam 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 Boulevard

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

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Person responsible for updating data

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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