Clinical Trial Protocol
Iranian Registry of Clinical Trials

08 Nov 2026

comparison study of metoclopramide and ketamine on postoperative nausea and vomiting

Protocol summary

Summary

The purpose of this study was to compare the effect of intravenous ketamine and metochlopramid before induction of anesthesia on postoperative pain and analgesic requirements. In this double blind clinical trial, 86 ASA1, 2 patients who were candidates for lower abdominal surgery, were enrolled. The patients with severe bleeding and those who needed blood transfusion were excluded. The eligible patients were randomly assigned to receive metoclopramide, 10 mg, or ketamine, 0.3 mg/kg, intravenously before induction of anesthesia. Score of pain, amount of opioid consumption in recovery and first 24 hours, and postoperative complications such as nausea and vomiting, postoperative ondansetron consumption, irritability, and psychological problems record were measured and compared between groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201011054819N1**
Registration date: **2010-12-22, 1389/10/01**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2010-12-22, 1389/10/01

Registrant information

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Saied Morteza Heidari Tabaei Zavareh
Name of organization / entity
Isfahan University of Medical Sciences
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Iran (Islamic Republic of)
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Recruitment status

Recruitment complete

Funding source

Isfahan University of Medical Sciences

Expected recruitment start date

2008-04-20, 1387/02/01

Expected recruitment end date

2008-07-22, 1387/05/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

comparison study of metoclopramide and ketamine on postoperative nausea and vomiting

Public title

Effect of metoclopramide on postoperative nausea and vomiting

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: 18-65 years old male and female patients with ASA1-2, no hypersensitivity to Ketamine or Metochlopramide who are candidates for elective laparotomy surgery under general anesthesia Exclusion criteria: severe bleeding during anesthesia and need to blood transfusion during surgery

Age

From **18 years** old to **65 years** old

Gender

Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **86**
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
Isfahan University of Medical Sciences
Street address
Hezarjerib street, Isfahan
City
Isfahan
Postal code
Approval date
2009-02-01, 1387/11/13
Ethics committee reference number
387361

Health conditions studied

1

Description of health condition studied
postopertive pain
ICD-10 code
ICD-10 code description

Primary outcomes

1

Description
postoperative pain
Timepoint
At 30th and 60th minutes at the recovery room and 2, 4, 6, and 24 hours postoperatively
Method of measurement
visual anlogue scale (VAS)

Secondary outcomes

1

Description
recovery stay time
Timepoint
end of recovery stay
Method of measurement
in minutes

2

Description
amounts of opoid consumption
Timepoint
At the recovery room and over 24 hours postoperatively
Method of measurement
in mg

3

Description
amounts of ondansetron consumption
Timepoint
Over 24 hours postoperatively
Method of measurement
in mg

4

Description
postoperative nausea and vomiting
Timepoint
At the recovery room and 6, 12, and 24 hours postoperatively
Method of measurement
observation and VAS

5

Description
irritability
Timepoint
at recovery room
Method of measurement
observation

6

Description
psychologic problems
Timepoint
at recovery
Method of measurement
observation

Intervention groups

1

Description
Metoclopramide, 10 mg, intravenously, 30 minutes

before induction of anesthesia

Category

Treatment - Drugs

2

Description

Ketamine, 0.3 mg/kg, intravenously, 30 minutes before induction of anesthesia

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Alzahra Hospital of Isfahan, Iran

Full name of responsible person

Saied Morteza Heidari

Street address

City

Isfahan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Isfahan University of Medical Sciences

Full name of responsible person

Saied Morteza Heidari

Street address

Department of anesthesia, Alzahra Hospital, Isfahan, Iran

City

Isfahan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Isfahan 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

Isfahan University of Medical Sciences

Full name of responsible person

Jamshid Salehi

Position

General Practitioner

Other areas of specialty/work

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Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Isfahan University of Medical Sciences

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Position

associated professor

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity

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Hamid Saryazdi

Position

Assistant Professor

Other areas of specialty/work

Street address

Alzahra Hospital

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Fax

Email

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