

Clinical Trial Protocol

Iranian Registry of Clinical Trials

26 May 2026

The effect of ondansetron and metoclopramide on postoperative nausea and vomiting (PONV) in laparoscopic cholecystectomy.

Protocol summary

Summary

This study compares the effects of metoclopramide and ondansetron in reducing nausea and vomiting after laparoscopic cholecystectomy. In this double blind clinical trial, 90 patients who have undergone laparoscopic cholecystectomy with general anesthesia are randomly assigned into three groups of 30 persons each and are equally placed under total intravenous general anesthesia. Before anesthesia, the patients in the intervention group will receive metoclopramide, 10 mg intravenous or ondansetron 4 mg intravenous and in the control group will receive normal saline 2cc intravenous. Postoperative nausea and vomiting were evaluated in the recovery room and 6 and 24 hours after surgery.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201111094093N3**

Registration date: **2011-11-15, 1390/08/24**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2011-11-15, 1390/08/24

Registrant information

Name

Masood Entezariasl

Name of organization / entity

Ardabil University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 45 1225 1688

Email address

m.entezari@arums.ac.ir

Recruitment status

Recruitment complete

Funding source

Ardabil University of Medical Sciences

Expected recruitment start date

2011-09-23, 1390/07/01

Expected recruitment end date

2012-03-19, 1390/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of ondansetron and metoclopramide on postoperative nausea and vomiting (PONV) in laparoscopic cholecystectomy.

Public title

The effect of ondansetron and metoclopramide on postoperative nausea and vomiting (PONV) in laparoscopic cholecystectomy

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: Candidate for laparoscopic cholecistectomy, ASA class I-II, age 15-80 years

Exclusion criteria: Gastroesophageal reflux - Severe obesity - difficult airway

Age

From **15 years** old to **80 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 90

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

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

Daneshgah street, Ardabil

City

Ardabil

Postal code

Approval date

2011-09-08, 1390/06/17

Ethics committee reference number

3/902

Health conditions studied

1

Description of health condition studied

Nausea and vomiting after laparoscopic cholecystectomy

ICD-10 code

K91.0

ICD-10 code description

Vomiting following gastrointestinal surgery

Primary outcomes

1

Description

Nausea after surgery

Timepoint

In the recovery room after surgery-6 and 24 hours after surgery

Method of measurement

Observation and history taking of patients, relatives and nursing staff

2

Description

Vomiting after surgery

Timepoint

In the recovery room after surgery-6 and 24 hours after surgery

Method of measurement

Observation and history taking of patients, relatives and nursing staff

Secondary outcomes

empty

Intervention groups

1

Description

Metoclopramide (10 mg, increased volume to 2 ml) before induction of anesthesia

Category

Prevention

2

Description

Ondansetron(4mg, increased volume to 2 ml) before induction of anesthesia

Category

Prevention

3

Description

Normal Saline, 2 ml, before induction of anesthesia

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Khomeini Hospital

Full name of responsible person

Masood Entezariasl

Street address

City

Ardabil

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ardabil University of Medical Sciences

Full name of responsible person

Dr Akbar Pirzadeh

Street address

School of Medicine, Ardabil University of Medical Sciences, Ardabil, Iran

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

Masood Entezariasl

Position

Associate Professor of Anesthesiology

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Postal code**Phone****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