

Clinical Trial Protocol

Iranian Registry of Clinical Trials

28 May 2026

Comparison of the effects of dexamethasone and granisetron in the prevention of nausea and vomiting after laparoscopic cholecystectomy

Protocol summary

Summary

In this study, 102 cases aged between 18-65 years old who are candidate for laparoscopic cholecystectomy (LC) will be randomly assigned to receive granisetron (3mg) or dexamethasone (8mg) 15 minutes before induction of anesthesia. Method of induction is the same in both groups. It consists of general anesthesia with thiopental (5mg/kg), atracorium (0.6mg/kg), and sulfantaniol (5mg) with isofluran, O₂, and N₂O as maintenance. After the operation, the rate of nausea and vomiting is measured every 6 hours for 24 hours and compared between groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138903033939N1**
Registration date: **2010-05-24, 1389/03/03**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2010-05-24, 1389/03/03

Registrant information

Name

Seyed Mohammad Ali Hessami

Name of organization / entity

Kermanshah University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 83 1727 4045

Email address

mahessami@kums.ac.ir

Recruitment status

Recruitment complete

Funding source

Kermanshah University of Medical Sciences

Expected recruitment start date

2010-04-21, 1389/02/01

Expected recruitment end date

2011-04-21, 1390/02/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effects of dexamethasone and granisetron in the prevention of nausea and vomiting after laparoscopic cholecystectomy

Public title

Comparison of the effects of dexamethasone and granisetron in the prevention of nausea and vomiting after laparoscopic cholecystectomy

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: age between 18-65 years, candidate for laparoscopic cholecystectomy due to symptomatic gall stone, Exclusion criteria: pregnancy, body mass index more than 30, comorbidity, previous laparotomy, gall bladder empyema, receiving opium or corticosteroid a week prior to operation

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: **102**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Kermanshah University of Medical Sciences

Street address

No. 2, Sepah square, Kermanshah

City

Kermanshah

Postal code

Approval date

2010-04-20, 1389/01/31

Ethics committee reference number

6069/420/7/پ

Health conditions studied

1

Description of health condition studied

Nausea and vomiting

ICD-10 code

k91.0

ICD-10 code description

nausea and vomiting following gasterointestinal surgery

Primary outcomes

1

Description

Rate of nausea and vomiting

Timepoint

each 6 hours for 3 times

Method of measurement

Asking from the patient

Secondary outcomes

1

Description

other complications (vertigo, headache, pruritus and sweating)

Timepoint

each 6 hours for 3 times

Method of measurement

Asking from the patient

Intervention groups

1

Description

Dexamethasone 8mg a single dose 15 minutes before anesthesia induction

Category

Treatment - Drugs

2

Description

Granisetron 3mg a single dose 15 minutes before anesthesia induction

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Emam Reza hospital

Full name of responsible person

Shahram Moradi

Street address

City

Kermanshah

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Kermanshah University of Medical Sciences

Full name of responsible person

Farid Najafi

Street address

No. 2, Kermanshah University of Medical Sciences

City

Kermanshah

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Kermanshah 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

Kermanshah University of Medical Sciences

Full name of responsible person

Seyed Mohammad Ali Hessami

Position

Thoracic surgeon

Other areas of specialty/work

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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

Person responsible for scientific inquiries

Contact

Name of organization / entity

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Full name of responsible person

Seyed Mohammad Ali Hessami

Position

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