Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 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 sulfantanil (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 laparatomy, gall bladder empyma, 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

Street address

EmamReza hospital,general surgery group

City

Kermanshah

Postal code

Phone

+98 83 1427 6314

Fax

Email

mahessami@kums.ac.ir

Web page address

Person responsible for scientific 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

Street address

General surgery group, Emam Reza hospital

City

Kermanshah

Postal code

Phone

+98 83 1427 6314

Fax

Email

mahessami@kums.ac.ir

Web page address

Person responsible for updating data

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

Street address

General surgey group, Emam Reza hospital

City

Kermanshah

Postal code

Phone

+98 83 1427 6314

Fax

Email

mahessami@kums.ac.ir

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