

Clinical Trial Protocol

Iranian Registry of Clinical Trials

24 Jun 2026

The Effect of single dose of dexamethasone on postoperative nausea and vomiting in patients undergoing laparoscopic cholecystectomy in Amir Al Momenin hospital, Semnan

Protocol summary

Summary

Aims: The purpose of this study was to study the effect of a single dose of dexamethasone in prevention from nausea and vomiting after laparoscopic cholecystectomy. **Design of the study:** In a clinical trial, 90 patients undergoing laparoscopic cholecystectomy were blind to the study drug or placebo divided into two groups according to the group allocation was done. The main inclusion and exclusion criteria: **Inclusion criteria:** elective cholecystectomy surgery **Exclusion criteria:** history of nausea and vomiting in previous surgery, diabetes mellitus, hypertension, obesity, use of anti-nausea drugs within 24 hours before surgery. **Sample size:** 90 patients who underwent laparoscopic cholecystectomy. **Interventions:** Ten minutes before extubation in operating room, 5 mg dexamethasone by intravenous injection administrated for case group and 5 cc normal saline for controls. **Incidence and severity of nausea or vomiting and also need to anti-emetic drugs in patients up to 24 hours after surgery was assessed and recorded by a person who did not know any matter about the patient grouping. Time of intervention:** Ten minutes before extubation in the operating room. **Study outcomes:** Decreasing of severity and frequency of vomiting and nausea.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014062118168N1**
Registration date: **2014-07-10, 1393/04/19**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-07-10, 1393/04/19

Registrant information

Name

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Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Research and Technology Vice chancellor, Semnan University of Medical Sciences

Expected recruitment start date

2013-09-06, 1392/06/15

Expected recruitment end date

2014-03-05, 1392/12/14

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The Effect of single dose of dexamethasone on postoperative nausea and vomiting in patients undergoing laparoscopic cholecystectomy in Amir Al Momenin hospital, Semnan

Public title

The Effect of dexamethasone on postoperative nausea and vomiting after laparoscopic cholecystectomy

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: Candidate for laparoscopic cholecystectomy
Exclusion criteria: History of vomiting and nausea in previous surgery; diabetes melitus; hypertension; Obesity; use of anti emetic and nausea drugs during last 24 hours.

Age

No age limit

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: 90

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Semnan University of Medical Sciences

Street address

Basidj Boulevard

City

Semnan

Postal code

Approval date

2012-09-22, 1391/07/01

Ethics committee reference number

1

Health conditions studied

1

Description of health condition studied

Vomiting after surgery

ICD-10 code

50.5

ICD-10 code description

استفراغ ناشی از سایر علل

Primary outcomes

1

Description

Vomiting severity

Timepoint

Up to 24 hours after surgery

Method of measurement

Based on score

Secondary outcomes

empty

Intervention groups

1

Description

Case group received dexamethasone 5 mg intravenously 10 minutes before extubation.

Category

Treatment - Drugs

2

Description

Control group received normal saline in similar volume to dexamethasone for case group 10 minutes before extubation.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Amir Al Momenin Hospital

Full name of responsible person

Dr. Hamid Reza Hemmati

Street address

Imam Hussein Square

City

Semnan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Semnan University of Medical Sciences

Full name of responsible person

Mohammad Reza Aasgari

Street address

Basidj Boulevard

City

Semnan
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Semnan 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

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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