Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Jul 2026

Comparison of the effects of the drug Dexmedetomidine with propofol in reducing the incidence of nausea and vomiting after gynecological laparoscopic surgery

Protocol summary

Summary

The purpose of this study is to compare the efficacy of the drug Dexmedetomidine ,versus propofol in reducing the incidence of nausea and vomiting after gynecological laparoscopic surgery. In a randomized, double-blind, clinical trial, 64 female patients between the ages of 18 and 50 years with American Society of Anesthesia class 1 and 2. Candidate for elective laparoscopic surgery in Imam Reza Hospital in Kermanshah, and also was not aware that the methods of grouping were randomly divided into two groups: propofol and Dexmedetomidine with inclusion criteria: Female gender, fasting for eight hours and consent to participate in the study and exclusion criteria: duration of operation more than two hours and the use of anti emetics. The work will be conducted in two phases. All agreements and preparation before surgery and after surgery in both groups are same. However, induction with propofol in the propofol group and in induction of Dexmedetomidine in Dexmedetomidine group done. At the conclusion of surgery nausea and vomiting evaluate by a colleague was not aware of groups according to the questionnaire.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201601081617N11**
Registration date: **2016-09-22, 1395/07/01**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2016-09-22, 1395/07/01

Registrant information

Name
Mansour Choubsaz
Name of organization / entity
Imam Reza Hospital
Country
Iran (Islamic Republic of)
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+98 83 1724 6708
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mchoubsaz@kums.ac.ir

Recruitment status

Recruitment complete

Funding source

Kermanshah University of Medical Sciences

Expected recruitment start date

2015-06-22, 1394/04/01

Expected recruitment end date

2015-12-22, 1394/10/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effects of the drug Dexmedetomidine with propofol in reducing the incidence of nausea and vomiting after gynecological laparoscopic surgery

Public title

Effects of the drug Dexmedetomidine versus propofol in reducing nausea and vomiting after gynecological surgery

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: Female gender, undergoing elective

gynecologic laparoscopic surgery , fasting for eight hours, consent to participate in the study Exclusion criteria: duration of operation more than two hours, the use of antiemetics

Age
From **18 years** old to **50 years** old

Gender
Female

Phase
2

Groups that have been masked
No information

Sample size
Target sample size: **64**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features
Randomly allocated to intervention and control groups is done based on random numbers table

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
National ethic Committee in bio medical research of Kermanshah University of Medical Sciences

Street address
National ethic Committee in bio medical research of Kermanshah University of Medical Sciences, Shaheed Beheshti Boulevard

City
Kermanshah

Postal code
6718938179

Approval date
2016-01-05, 1394/10/15

Ethics committee reference number
Kums.REC.1394.276

Health conditions studied

1

Description of health condition studied
nausea and vomiting

ICD-10 code
K91.9

ICD-10 code description
Postprocedural disorder of digestive system, unspecified

Primary outcomes

1

Description
nausea

Timepoint
thirty minutes after consciousness

Method of measurement
questionnaire

2

Description
vomiting

Timepoint
thirty minutes after consciousness

Method of measurement
questionnaire

Secondary outcomes

1

Description

Timepoint

Method of measurement

Intervention groups

1

Description
induction with Dexmedetomidine One microgram/kg intravenous injection in ten minutes of drug Dexmedtomidin hydrochloride of100microgram/milliliter solution (Precedex)

Category
Prevention

2

Description
induction with propofol

Category
Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center
Kermanshah University of Medical Sciences

Full name of responsible person

Dr.Farid Najafi

Street address

Kermanshah University of Medical Sciences, Shaheed Beheshti Boulevard

City

Kermanshah

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

vice chancellor for research, Kermanshah University of Medical Sciences

Full name of responsible person

Dr.Farid Najafi

Street address

Shaheed Beheshti Boulevard, Kermanshah University of Medical Sciences

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Kermanshah

Grant name

Grant code / Reference number

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

Yes

Title of funding source

vice chancellor for research, 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

Imam Reza Hospital

Full name of responsible person

Aida Lahoorpour

Position

Resident of Anesthesiology

Other areas of specialty/work

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Position

Anesthesiologist, Assistant Professor

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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