

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Comparative study of the effect of intranasal dexamethasone on prevention of postoperative nausea and vomiting in hysterectomy

Protocol summary

Study aim

Comparison of the effect of nasal dexamethasone on post hysterectomy surgery nausea and vomiting prevention in adults

Design

Clinical trials in two community-based and pragmatic groups with parallel blinded, randomized, 35-person groups

Settings and conduct

Using intranasal dexamethasone and saline with a specific dose in two groups and comparing its effect on reducing nausea and vomiting after hysterectomy surgery in Shahid Beheshti Hospital and Alzahra Hospital, the patient and researcher are unaware of which drug is used for each patient

Participants/Inclusion and exclusion criteria

Inclusion criteria: Women older than 18 years; American society of anesthesiologists(ASA) physical status classification 1 or 2 ; Filled informed consent form ; Hysterectomy under general anesthesia ; Exclusion criteria: Patient with sever and uncontrolled cardiovascular , renal , liver and chronic lung diseases ; Systemic fungal infection ; Contraindication for dexamethasone ; Taking antiemetic and analgesics drugs during last 24 hours before surgery ; Pregnant women ; Menstrual period ; Patients with motion sickness and GI problems and history of postoperative nausea and vomiting ; Patients with History of Psychologic Problem and Parkinson Disease ; History of Chemotherapy .

Intervention groups

Recipient of Dexamethasone (A) and Saline (B)

Main outcome variables

Incidence of nausea ; Score of nausea ; Incidence of vomiting ; Score of vomiting ; Score of pain ; First time using anti emetic drug ; Total dose of anti emetic ; Frequency of using anti emetic drug ; Extubation time ; Length of stay in recovery ; Patient satisfaction score ; Beginning time of using liquid foods ; Beginning time of using solid foods ; age ; Under treatment group ; Length

of stay in hospital

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180416039326N13**

Registration date: **2020-06-15, 1399/03/26**

Registration timing: **registered_while_recruiting**

Last update: **2020-06-15, 1399/03/26**

Update count: **0**

Registration date

2020-06-15, 1399/03/26

Registrant information

Name

Hamidreza Shetabi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 31 3620 2020

Email address

hamidshetabi@med.mui.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-06-14, 1399/03/25

Expected recruitment end date

2021-06-15, 1400/03/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty	Other design features
Scientific title Comparative study of the effect of intranasal dexamethasone on prevention of postoperative nausea and vomiting in hysterectomy	Secondary Ids empty
Public title Effect of intranasal dexamethasone on prevention of postoperative nausea and vomiting in hysterectomy	Ethics committees
Purpose Prevention	1
Inclusion/Exclusion criteria Inclusion criteria: Women older than 18 years American society of anesthesiologists(ASA) physical status classification 1 or 2 Filled informed consent form Hysterectomy under general anesthesia Exclusion criteria: Patient with sever and uncontrolled cardiovascular , renal , liver and chronic lung diseases Systemic fungal infection Contraindication for dexamethasone Taking antiemetic and analgesics drugs during last 24 hours before surgery Pregnant women Menstural period Patients with motion sickness and GI problems and history of postoperative nausea and vomiting Patients with History of psychologic problem and Parkinson disease History of chemotherapy	Ethics committee Name of ethics committee Ethics committee of Esfahan University of Medical Sciences Street address Hezar Jerib St City Esfahan Province Isfahan Postal code ۷۳۴۶۱-۸۱۷۴۶
Age From 18 years old	Approval date 2020-03-16, 1398/12/26
Gender Female	Ethics committee reference number IR.MUI.MED.REC.1398.731
Phase 2-3	Health conditions studied
Groups that have been masked • Participant • Outcome assessor	1
Sample size Target sample size: 70	Description of health condition studied Postoperative Nausea and Vomiting
Randomization (investigator's opinion) Randomized	ICD-10 code R11
Randomization description Random allocation to intervention and control groups using Random allocation software.70 patients who have candidated for elective hysterectomy will divided randomly to intervention group who will recieve nasal dexamethasone (group A) and control group who will recieve nasal normal saline.	ICD-10 code description Nausea and Vomiting
Blinding (investigator's opinion) Double blinded	Primary outcomes
Blinding description Anesthesiologist who has no function in collection of dates devides drugs in two groups A and B with same volume and then describes them . In this double-blind clinical trial the patient and the observer who records dates are unaware of patients groups and drugs which are being studied but the analyzer is aware.	1
Placebo Used	Description Incidence of nausea
Assignment Parallel	Timepoint At recovery (every 10min or having symptom) and 2 and 12 and 24 hours after surgery
	Method of measurement Visual Analogue Scale
	2
	Description Score of nausea
	Timepoint At recovery (every 10min or having symptom) and 2 and 12 and 24 hours after surgery
	Method of measurement Visual Analogue Scale

3

Description

Incidence of vomiting

Timepoint

At recovery (every 10min or having symptom) and 2 and 12 and 24 hours after surgery

Method of measurement

scoring system for vomiting

4

Description

Score of vomiting

Timepoint

At recovery (every 10min or having symptom) and 2 and 12 and 24 hours after surgery

Method of measurement

Scoring system for vomiting

5

Description

Score of pain

Timepoint

At recovery (every 10min or having symptom) and 2 and 12 and 24 hours after surgery

Method of measurement

Visual Analogue Scale

6

Description

First time using anti emetic drug

Timepoint

24 hours after entering recovery

Method of measurement

minute

7

Description

Total dose of anti emetic

Timepoint

24 hours after entering recovery

Method of measurement

file

8

Description

Frequency of using anti emetic drug

Timepoint

24 hours after entering recovery

Method of measurement

file

9

Description

Extubation time

Timepoint

After Extubation

Method of measurement

minute

10

Description

Length of stay in recovery

Timepoint

After exiting recovery

Method of measurement

minute

11

Description

Patient satisfaction score

Timepoint

24 hours after entering recovery

Method of measurement

Likert scale

12

Description

Beginning time of using liquid foods

Timepoint

after using liquid foods

Method of measurement

minute

13

Description

Beginning time of using solid foods

Timepoint

after using solid foods

Method of measurement

minute

14

Description

Length of stay in hospital

Timepoint

After exiting hospital

Method of measurement

day

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: After receiving 10ml/kg of ringer lactate and pre-oxygenation for patients, the same anesthetic induction was performed including Fentanyl 2mcg / kg, Propofol 2 mg / kg and Atracurium 0.5 to 0.7 mg / kg, midazolam 0.3 to 0.5mcg / kg and the patients underwent mechanical ventilation by mask and ambobag for three minutes. Immediately after intubation, 1 cc of

dexamethasone (4mg) was injected in each nostril.

Category

Prevention

2

Description

Control group: After receiving 10ml/kg of ringer lactate and pre-oxygenation for patients, the same anesthetic induction was performed including Fentanyl 2mcg / kg, Propofol 2 mg / kg and Atracurium 0.5to 0.7mg / kg, midazolam 0.3to 0.5mcg / kg and the patients underwent mechanical ventilation by mask and ambobag for three minutes. Immediately after intubation, 1 ml of normal saline was injected in each nostril.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Beheshti Hospital

Full name of responsible person

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2

Recruitment center

Name of recruitment center

Alzahra Hospital

Full name of responsible person

Hamidreza Shetabi

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Boulevard

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Esfahan University of Medical Sciences

Full name of responsible person

Shaqayeq Haghjooye Javanmard

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Grant name

Grant code / Reference number

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

No

Title of funding source

Esfahan University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Esfahan University of Medical Sciences

Full name of responsible person

Hamidreza Shetabi

Position

associate professor

Latest degree

Specialist

Other areas of specialty/work

Anesthesiology

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Person responsible for scientific inquiries

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Position
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Latest degree
Specialist
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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available