

Clinical Trial Protocol

Iranian Registry of Clinical Trials

24 Jun 2026

Effect of single dose intravenous Dexamethasone on postoperative blood glucose in non-diabetic patients undergoing abdominal hysterectomy

Protocol summary

Blood glucose , nausea, vomiting,CRP level

Study aim

Effect of single-dose intravenous dexamethasone on postoperative hyperglycemia in non-diabetic patients undergoing abdominal hysterectomy versus control group at Moheb Yas Hospital in Tehran.

Design

This study will be a double-blind randomized clinical trial and patients will randomly divided into control and dexamethasone receiving groups, The sample size was 66 individuals based on analysis of variance of repeated measures, with 33 individuals in each group.

Settings and conduct

It's a double-blind randomized clinical trial (patient and anesthesiologist Will be unaware of the type of medication received) it will be performed at Moheb Yas Hospital in Tehran, women's candidates for abdominal hysterectomy with inclusion criteria will divide randomly into two groups of receiving dexamethasone and the control group who will receive a placebo. After surgery, blood glucose levels are monitored for 24 hours and the patient's nausea, vomiting and CRP levels are also monitored.

Participants/Inclusion and exclusion criteria

All non-diabetic 30-65-year-old women referring to Moheb Yas Hospital in Tehran at the designated time for elective abdominal hysterectomy and are ready to participate in this research project. Patients who have allergies, recent consumption of glucocorticoids, or contraindication of glucocorticoid, use of anti-nausea medications 24 hours before surgery, gastrointestinal disease, motion sickness, prior history of PONV, and patients that are under treatment with oral contraceptives or on hormone therapy during the pregnancy and smokers will be excluded.

Intervention groups

Patients receiving 8 mg dexamethasone intravenously immediately after induction of anesthesia and before surgical incision.

Main outcome variables

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20120624010102N3**

Registration date: **2020-03-23, 1399/01/04**

Registration timing: **registered_while_recruiting**

Last update: **2020-03-23, 1399/01/04**

Update count: **0**

Registration date

2020-03-23, 1399/01/04

Registrant information

Name

Ehsan Bastan hagh

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 4204 6310

Email address

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-01-15, 1398/10/25

Expected recruitment end date

2020-08-18, 1399/05/28

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of single dose intravenous Dexamethasone on postoperative blood glucose in non-diabetic patients undergoing abdominal hysterectomy

Public title

The effect of dexamethasone on postoperative blood glucose

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Women Aged 30 to 65 years Non-diabetic Abdominal hysterectomy candidate

Exclusion criteria:

Allergies recent use of glucocorticoids anti-nausea medication within 24 hours before surgery gastrointestinal disease motion sickness oral contraceptives hormone therapy smokers

Age

From **30 years** old to **65 years** old

Gender

Female

Phase

N/A

Groups that have been masked

- Participant
- Care provider

Sample size

Target sample size: **66**

Randomization (investigator's opinion)

Randomized

Randomization description

Patients are randomly divided into two groups using balanced block randomization

Blinding (investigator's opinion)

Double blinded

Blinding description

The study medications are prepared by an anesthesiologist who does not otherwise participated in the study and then enveloped and sealed and patient's code are recorded on it. The enveloped will open before induction by an anesthesiologist who is blinded to patient's study group and type of solution. All of the nurses and patient's are blinded to the type of solution and to the patient's study group allocation

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Tehran University of Medical Sciences

Street address

5th floor, Corner of ghods St, Keshavarz Blv.

City

Tehran

Province

Tehran

Postal code

۱۴۱۷۴۱۴۴۱۸

Approval date

2019-12-10, 1398/09/19

Ethics committee reference number

IR.TUMS.MEDICIN.REC.1398.658

Health conditions studied

1

Description of health condition studied

Evaluation of Dexamethasone effect of post operative nausea and vomiting in abdominal hysterectomy.

ICD-10 code

R11

ICD-10 code description

Nausea and vomiting

2

Description of health condition studied

Evaluation of glucose impairment by Dexamethasone injection after abdominal hysterectomy surgery.

ICD-10 code

E08

ICD-10 code description

Diabetes mellitus due to underlying condition

Primary outcomes

1

Description

Blood sugar

Timepoint

Before surgery and 6, 12, 18 and 24 hours after surgery

Method of measurement

Glucometer

Secondary outcomes

1

Description

Nausea and vomiting and CRP

Timepoint

24 hours postoperative

Method of measurement

Asking and do the test

Intervention groups

1

Description

Intervention group: Intravenous injection of 8 mg dexamethasone immediately after induction of anesthesia and before surgical incision.

Category

Treatment - Drugs

2

Description

Control group: The same amount of normal saline will be injected

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Yas Hsopital

Full name of responsible person

Somayeh Mohammady

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Yas Hospital, End of North Ostad Nejatollahi Ave., Karimkhan Zand St,

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

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Grant name

Grant code / Reference number

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

Yes

Title of funding source

Tehran 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

Tehran University of Medical Sciences

Full name of responsible person

Somayeh Mohamady

Position

Resident of anesthesiology

Latest degree

Medical doctor

Other areas of specialty/work

Anesthesiology

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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