

Clinical Trial Protocol

Iranian Registry of Clinical Trials

23 Jun 2026

Evaluating the Effect of Intraoperative Dextrose Infusion for Prevention of Nausea and Vomiting after Diagnostic Gynecologic Laparoscopy

Protocol summary

Summary

Postoperative nausea and vomiting (PONV) remains one of the most common postoperative complications. The aim of the present study is to evaluate the effect of infusion iv dextrose solution beginning with the start of surgery to end of operation for prophylaxis of PONV in patients undergoing diagnostic gynecologic laparoscopy under general anesthesia. In this clinical trial 70 ASA physical status I non-diabetic patients and aged 20-70 years, scheduled for diagnostic gynecologic laparoscopy are randomly assigned to infusion of 10 mL/kg/h Ringer's solution with 0.5 g/kg dextrose in study group (n = 35) or Ringer's solution alone in placebo group (n = 35) during surgery. Blood glucose is determined using a glucometer in the operating room immediately before study fluid infusion and in the recovery room. PONV scores using by (0= non; 1= nausea; 2=vomiting; and 3= vomiting > 3 times) scoring in recovery room and at 3, 6, and 24 hours postoperatively, first request to antiemetic , and total dose of antiemetic medication are recorded.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201402047013N10**

Registration date: **2014-02-10, 1392/11/21**

Registration timing: **na**

Last update:

Update count: **0**

Registration date

2014-02-10, 1392/11/21

Registrant information

Name

Simin Atashkhoei

Name of organization / entity

Tabriz University of Medical Sciences

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Recruitment status

Not enough for processing

Funding source

Research Vice Chancellor, Tabriz University of Medical Sciences

Expected recruitment start date

2013-12-30, 1392/10/09

Expected recruitment end date

2013-12-29, 1392/10/08

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluating the Effect of Intraoperative Dextrose Infusion for Prevention of Nausea and Vomiting after Diagnostic Gynecologic Laparoscopy

Public title

Effect of Intraoperative Dextrose Infusion for Prevention of Nausea and Vomiting after Diagnostic Gynecologic Laparoscopy

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: Women aged 20-40 years; ASA class 1; scheduled for diagnostic gynecologic laparoscopy
Exclusion criteria: vaginal hemorrhage; taking any medication, including corticosteroids , opioids and

antiemetics; history of systemic disease(cardiovascular, respiratory, renal ,...); history of motion sickness; history of gastrointestinal disease; pregnancy

Age

From **20 years** old to **40 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **70**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Research Vice Chancellor, Tabriz University of Medical Sciences

Street address

Research Vice Chancellor; Tabriz University; Daneshgah Street; Tabriz

City

Tabriz

Postal code

Approval date

2013-12-30, 1392/10/09

Ethics committee reference number

92164

Health conditions studied

1

Description of health condition studied

Postoperative nausea and vomiting

ICD-10 code

Y84

ICD-10 code description

Other medical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure

Primary outcomes

1

Description

Severity of postoperative nausea and vomiting

Timepoint

Recovery and at 3, 6, and 24 h postoperatively

Method of measurement

scoring by (0=non, 1=nausea, 2=vomiting, 3=vomiting >2 times)

Secondary outcomes

1

Description

Total dose of antiemetic

Timepoint

recovery and during 24 hpostoperatively

Method of measurement

mg

Intervention groups

1

Description

In the study group is infused 10 ml/kg/h Ringer's solution with 0.5 g/kg dextrose during surgery.

Category

Prevention

2

Description

In the placebo group (n=35) is infused of 10 ml/kg/h Ringer's solution alone in placebo during surgery.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Al-Zahra Hospital

Full name of responsible person

Dr. Simin Atashkhoyi

Street address

Alzahra Hospital, South Artesh Ave, Tabriz

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Research Vice Chancellor, Daneshgah Street, Tabriz

Full name of responsible person

Dr. Rashidi

Street address

Research Vice Chancellor, Daneshgah Street, Tabriz

City

Tabriz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Research Vice Chancellor, Daneshgah Street, Tabriz

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

Tabriz University of Medical Sciences

Full name of responsible person

Dr. Simin Atashkhoyi

Position

Anesthesiologist/ Professor

Other areas of specialty/work

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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