

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Comparing the effect of acupressure and metoclopramide on nausea and vomiting in women with spinal anesthesia for cesarean

Protocol summary

Summary

Background: Nausea and vomiting are side effects of surgery. Today, using of acupressure is considered because of drug side effects. The present study has been done to compare the effects of acupressure with metoclopramide on nausea and vomiting after surgery. Methods: In a clinical trial were investigated 102 women with elective cesarean in Mostafa Khomeini hospital, Ilam, Iran. patients were randomized to three groups (34 patients in each group): control, metoclopramide and acupressure. In the first group, based on routine, did not do anything. The second group, received 10 mg intravenous metoclopramide immediately after the surgery. The third group, wrist strap were close in both hands tied (Nygán) 15 minutes before induction of anesthesia. Patients were allowed to open the wrists half an hour every two hours. Anesthesia was similar in all groups. Prophylactic antiemetic drugs no use to prevent nausea and vomiting before surgery. All groups received 5 liters of oxygen intraoperative. Nausea and vomiting and require antiemetic was recorded in 30, 60, 90, 120 min and fourth and sixth hour after surgery. All patients were transferred to the postsurgical ward in the same position and after the return of full consciousness. Data were analyzed using χ^2 and t-test.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201111146575N4**

Registration date: **2011-12-21, 1390/09/30**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-12-21, 1390/09/30

Registrant information

Name

Ashraf Direkvand-Moghadam

Name of organization / entity

Ilam University of Medical Sciences

Country

Iran (Islamic Republic of)

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Email address

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Ilam University of Medical Sciences

Expected recruitment start date

2010-09-23, 1389/07/01

Expected recruitment end date

2011-09-23, 1390/07/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing the effect of acupressure and metoclopramide on nausea and vomiting in women with spinal anesthesia for cesarean

Public title

Comparing the effect of acupressure and metoclopramide on nausea and vomiting in women with spinal anesthesia for cesarean

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: 18-35 years; The first to fourth

pregnancy; no history of previous abdominal surgery
Excluding criteria: acute and chronic disease associated with nausea and vomiting; Carpal tunnel syndrome; obesity; digestive and ear disorders

Age

From **18 years** old to **35 years** old

Gender

Female

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **102**

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Not blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics committee Ilam University of Medical Sciences

Street address

Ilam University of Medical Sciences

City

Ilam

Postal code**Approval date**

2011-12-13, 1390/09/22

Ethics committee reference number

539/52/22

Health conditions studied**1****Description of health condition studied**

nausea and vomiting after caesarean section

ICD-10 code

R11

ICD-10 code description

Symptoms and signs involving the digestive system and abdomen

Primary outcomes**1****Description**

nausea

Timepoint

30,60,90,120 min and fourth and sixth hour after surgery

Method of measurement

Visual Analog Scale

Secondary outcomes**1****Description**

vomiting

Timepoint

30,60,90,120 min and fourth and sixth hour after surgery

Method of measurement

Measure the frequency of belching or vomiting

Intervention groups**1****Description**

In the case group, based on routine, did not do anything

Category

Other

2**Description**

The metoclopramide group, received 10 mg intravenous immediately after the surgery

Category

Treatment - Drugs

3**Description**

wrist strap were close in both hands tied(Nygan) 15 minutes before induction of anesthesia. Patients were allowed to open the wrists half an hour every two hours.

Category

Treatment - Other

Recruitment centers**1****Recruitment center****Name of recruitment center**

Mustafa Khomeini hospital, Ilam

Full name of responsible person

BA of Midwifery

Street address

Ilam Mustafa Khomeini Hospital of Ilam, Ilam
University of Medical Sciences

City

Ilam

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Ilam University of Medical Sciences

Full name of responsible person

Dr Afra Khosravi research manager of research, Ilam University of Medical Sciences

Street address

Vice chancellor for research Ilam University of Medical Sciences, Pajuhesh Avenue, Bangnjab, Ilam

City

Ilam

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, Ilam 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**

Department of Midwifery, Ilam University of Medical Sciences

Full name of responsible person

Ashraf Direkvand-Moghadam

Position

MSc of Midwifery

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Person responsible for scientific

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City**Postal code****Phone****Fax****Email****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