

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

06 Jun 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  $\chi^2$  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)

##### Phone

+98 84 3222 7134

##### Email address

direkvand-a@medilam.ac.ir

#### 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

**Other areas of specialty/work****Street address**

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## Person responsible for scientific

## inquiries

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## Person responsible for updating data

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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*