

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### Comparison of three methods of acupressure, using Ondansetron and Metoclopramide on the incidence of postoperative nausea and vomiting after strabismus surgery

#### Protocol summary

##### Summary

This study is aimed to compare the effect of acupressure method with treatment induced by Ondansetron and Metoclopramide on the postoperative nausea and vomiting after strabismus surgery. Two hundred patients, ASA physical status I or II, aged between 10 and 60 years, undergoing strabismus surgery in Farabi Hospital during 2007 to 2008, were included in this randomized, prospective, double-blind and placebo-controlled study. Patients were randomized into four groups of 50 each, using a table of random numbers. Group II patients received Metoclopramide, 0.2 mg/kg, IV just before induction. Group III patients received Ondansetron, 0.15 mg/kg, IV just before induction. In Group IV patients, acupressure bands were applied at the P6 point on both forearms 30 min before induction of anesthesia and removed after 6 hours. In Groups I, II and III, the spherical beads of the acupressure wrist bands were placed inappropriately on the posterior surface of both forearms 30 min prior to induction of anesthesia. Groups I and IV patients received normal saline 1 ml, IV just before induction of anesthesia to maintain blinding. Patients were followed up at the recovery (0-2 hr) and in the ward (2-24 hr) during first 24 hours and were assessed for PONV. Postoperative retching, nausea, and vomiting were recorded by nursing staff who were unaware of the type of treatment given to the patients.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT138807152556N1**  
Registration date: **2009-12-12, 1388/09/21**  
Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2009-12-12, 1388/09/21

##### Registrant information

###### Name

Sirus Momenzadeh

###### Name of organization / entity

Shahid Beheshti University of Medical Sciences and Health Services

###### Country

Iran (Islamic Republic of)

###### Phone

+98 21 7755 8081

###### Email address

momenzadeh@sbm.ac.ir

##### Recruitment status

###### Recruitment complete

##### Funding source

Tehran University of Medical Sciences and Health Services, personal budget

##### Expected recruitment start date

2007-04-21, 1386/02/01

##### Expected recruitment end date

2007-11-06, 1386/08/15

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparison of three methods of acupressure, using Ondansetron and Metoclopramide on the incidence of postoperative nausea and vomiting after strabismus surgery

## Public title

Comparison of three methods of acupuncture, using Ondansetron and Metoclopramide on the incidence of postoperative nausea and vomiting after strabismus surgery

## Purpose

Prevention

## Inclusion/Exclusion criteria

Inclusion criteria: ASA physical status I or II, age 10-60 years old, signing consent to participate in the study  
Exclusion criteria: Presence of nausea or vomiting during one week prior to the study, local infection near the acupuncture point, symptomatic medical illness, travel sickness, recovery more than 2 hours, receiving any medical therapy immediately before surgery

## Age

From **10 years** old to **60 years** old

## Gender

Both

## Phase

N/A

## Groups that have been masked

*No information*

## Sample size

Target sample size: **200**

## 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

Tehran University of Medical Sciences and Health Services

##### Street address

Poorsina Ave.

##### City

Tehran

##### Postal code

#### Approval date

2006-03-17, 1384/12/26

#### Ethics committee reference number

631

## Health conditions studied

### 1

#### Description of health condition studied

Strabismus surgery

#### ICD-10 code

H50

#### ICD-10 code description

Strabismus

## Primary outcomes

### 1

#### Description

Nausea & Vomiting

#### Timepoint

At 0-2 hours at the recovery room and the first 24 hours in the ward

#### Method of measurement

Question from the patient

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Metoclopramide, 0.2 mg/kg, IV, just before induction, at the recovery room (0-2 hr) and in the ward (2-24 hr) during the first 24 hours

#### Category

Treatment - Drugs

### 2

#### Description

Ondansetron, 0.15 mg/kg, IV, just before induction, at the recovery room(0-2 hr) and in the ward (2-24 hr) during the first 24 hours

#### Category

Treatment - Drugs

### 3

#### Description

Acupuncture Bands were applied at the P6 point on both forearms 30 min before induction of anesthesia and were removed after 6 hours. at the recovery room(0-2 hr) and in the ward (2-24 hr) during the first 24 hours

#### Category

Treatment - Other

### 4

#### Description

Placebo, Normal Saline 1 ml, IV just before induction, at the recovery room(0-2 hr) and in the ward (2-24 hr) during the first 24 hours

#### Category

Placebo

## Recruitment centers

1

### Recruitment center

**Name of recruitment center**

Farabi Hospital

**Full name of responsible person**

**Street address**

**City**

Tehran

## Sponsors / Funding sources

1

### Sponsor

**Name of organization / entity**

Tehran University of Medical Sciences and Health Services

**Full name of responsible person**

Hossein Mohammadinasab

**Street address**

Poorsina Ave.

**City**

Tehran

**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 and Health Services

**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**

University of Medical Sciences and Health Services,  
Tehran

**Full name of responsible person**

Hossein Mohammadinasab

**Position**

Anesthesiologist

**Other areas of specialty/work**

**Street address**

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## Person responsible for scientific inquiries

### Contact

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## Person responsible for updating data

### Contact

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## 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*