

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

05 Jul 2026

### The effect of acupressure on severity of nausea and vomiting during hemodialysis in hemodialysis patients

#### Protocol summary

##### Summary

Objectives: Effect of acupressure on nausea and vomiting in patients undergoing hemodialysis. Design: Single blinded clinical trial. Setting and conduct: The intervention is carried out with in one group in three stages including routine care, applying acupressure, and placebo. Acupressure is performed by Sea-Band as an elastic band with a plastic button in its below. It is considered to be some sort of acupressure when the Sea-Band button is placed on the P6 point (Nei guan) on the inner surface of the forearm. On the other hand, it will be considered to have a placebo effect, when the Sea-Band button is placed on the opposite of P6 (Nei guan) on the back of the forearm. The routine treatment is consisted of routine interventions in the dialysis ward. Participants: Inclusion criteria are: (1) being alert; (2) not taking antiemetic drugs at least six hours before hemodialysis; (3) beginning of hemodialysis at least three months before the study; (4) being over 20 years old; (5) having no skin problem such as allergies and ulcers at the Sea-Band site; (6) being depended on three cycles of hemodialysis per week. Exclusion criteria are: (1) having a low level of consciousness, (2) being transfered to other centers during the study (3) requiring emergency hemodialysis; (4) taking a long journey by car just before hemodialysis ;(5) having acute gastrointestinal illnesses; (6) having pain or severe anxiety; (7) having motion sickness. Intervention: Interventions including routine care, applying acupressure, and placebo that is done in three stages. Main outcome measures (variables): Severity of nausea and vomiting.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT201304298717N2**

Registration date: **2014-01-20, 1392/10/30**

Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

##### Registration date

2014-01-20, 1392/10/30

##### Registrant information

###### Name

Mohammad Reza Asgari

###### Name of organization / entity

Semnan University of Medical Sciences and Health and Treatment Services

###### Country

Iran (Islamic Republic of)

###### Phone

+98 23 1445 3365

###### Email address

asgari@sem-ums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Vice chancellor for research, Semnan University of Medical Sciences

##### Expected recruitment start date

2013-12-22, 1392/10/01

##### Expected recruitment end date

2014-06-22, 1393/04/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

The effect of acupressure on severity of nausea and vomiting during hemodialysis in hemodialysis patients

**Public title**

The effect of acupressure on prevention of nausea and vomiting

**Purpose**

Prevention

**Inclusion/Exclusion criteria**

Inclusion criteria are: (1) being alert; (2) not taking antiemetic drugs at least six hours before hemodialysis; (3) beginning of hemodialysis at least three months before the study; (4) being over 20 years old; (5) having no skin problem such as allergies and ulcers at the Sea-Band site; (6) being depended on three cycles of hemodialysis per week. Exclusion criteria are: (1) having a low level of consciousness, (2) being transferred to other centers during the study (3) requiring emergency hemodialysis; (4) taking a long journey by car just before hemodialysis ;(5) having acute gastrointestinal illnesses; (6) having pain or severe anxiety; (7) having motion sickness.

**Age**

From **20 years** old to **90 years** old

**Gender**

Both

**Phase**

3

**Groups that have been masked**

*No information*

**Sample size**

Target sample size:

**Randomization (investigator's opinion)**

N/A

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

Single blinded

**Blinding description****Placebo**

Not used

**Assignment**

Single

**Other design features**

This study is single blinded so that patients do not know anything about the type of the intervention (acupressure or placebo). Also in this study, placebo is used, so that when the Sea-Band button is placed on the opposite site of P6 (Nei guan) on the back of the forearm, it has the placebo role. When the Sea-Band button is placed on the point P6 (Nei guan) in the inner surface of the forearm, it has the acupressure role.

**Secondary Ids**

empty

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

Ethics committee of semnan university of Medical Sciences

**Street address**

Semnan University of Medical Sciences, Semnan, Semnan Province, Iran

**City**

Semnan

**Postal code**

3519899951

**Approval date**

2010-08-20, 1389/05/29

**Ethics committee reference number**

372055/92

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

Chronic kidney disease

**ICD-10 code**

N18.5

**ICD-10 code description**

Chronic kidney disease, stage 5

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

Severity of vomiting

**Timepoint**

At the end of hemodialysis, after removing hemodialysis needles and dressing of vascular access site

**Method of measurement**

korttila vomiting severity scale

**2****Description**

Severity of nausea

**Timepoint**

At the end of hemodialysis, after removing hemodialysis needles and dressing of vascular access site

**Method of measurement**

Verbal Numeric Rating Scale (VNRS)

**Secondary outcomes**

empty

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

First intervention (Routine care): In the control group patients receive routine care, that is consisted of normal saline (200 ml) after nausea and vomiting. After removing hemodialysis needles and dressing of vascular access site, a nurse measures the severity of nausea and vomiting during hemodialysis by using verbal numerical rating scale (VNRS) and korttila vomiting severity scale.

**Category**

Treatment - Other

## 2

### Description

The second intervention (use of acupressure): In the intervention group, 10 minutes before inserting hemodialysis needles, the Sea-Band is closed on patients' wrists so that its button is placed on the P6 point (Nei guan) on the inner surface of the forearm, about 2 inches (three fingers width) above the Internal groove of wrist. The Sea-Band remains during hemodialysis and is removed at the end of hemodialysis just before removing hemodialysis needles. After removing hemodialysis needles and dressing of vascular access site, a nurse measures the severity of nausea and vomiting during hemodialysis by using verbal numerical rating scale (VNRS) and korttila vomiting severity scale.

### Category

Treatment - Devices

## 3

### Description

The third intervention (use of placebo): In the intervention group, using placebo, 10 minutes before entering the hemodialysis needles, the Sea-Band is closed on patients' wrists so that its button is placed on opposite of P6 point (Nei guan) on the back of the forearm. The Sea-Band during hemodialysis remains and is removed at the end of hemodialysis just before removing hemodialysis needles. After removing hemodialysis needles and dressing of vascular access site, a nurse measures the severity of nausea and vomiting during hemodialysis by using verbal numerical rating scale (VNRS) and korttila vomiting severity scale.

### Category

Placebo

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Dialysis ward of Semnan Kowsar hospital

##### Full name of responsible person

Mohammad Reza Asgari

##### Street address

Department of dialysis, Kowsar hospital, Basij Boulevard, Semnan, Iran

##### City

Semnan

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Vice chancellor for research, Semnan University of Medical Sciences

##### Full name of responsible person

Dr. Raheb Ghorbani

#### Street address

Research and Technology Deputy of Semnan University of Medical Sciences, Basij Boulevard, Semnan, Iran

#### City

Semnan

#### 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, Semnan 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

Semnan University of Medical Sciences

##### Full name of responsible person

Dr. Mohammad Reza Asgari

##### Position

PhD in nursing - Faculty member

##### Other areas of specialty/work

##### Street address

Faculty of nursing and allied, Semnan University of Medical Sciences, Semnan, Iran

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## Person responsible for scientific inquiries

#### Contact

##### Name of organization / entity

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##### Full name of responsible person

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**Other areas of specialty/work**

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asgari5000@gmail.com

**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*